


## GENERAL NOTES

- [illegible]

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6. SHOT PIN INSTALLERS FROM THE TOP SHALL BE SPACED AS NOTED ABOVE FOR TYPICAL CONCRETE ELEMENTS. PINS INSTALLED FROM THE BOTTOM IN THE HIGH FLUTES SHALL BE INSTALLED WITHIN 1" OF FLUTE CENTER. PINS INSTALLED FROM THE BOTTOM IN THE LOW FLUTES SHALL BE INSTALLED WITHIN 1" OF THE FLUTE CENTER AND SHALL BE NO CLOSER THAN 1' 11" TO THE EDGE OF THE LOW FLUTE. PINS INSTALLED FROM THE BOTTOM SHALL BE SPACED NO CLOSER THAN 5 1/2" PARALLEL TO THE FLUTES. PINS SHALL HAVE 1" PENETRATION INTO CONCRETE U.N.O. CONCRETE SHALL ATTAIN FULL DESIGN STRENGTH PRIOR TO INSTALLING SHOT PINS.
7. SHOT PINS MAY BE DRIVEN INTO 8" NOMINAL MINIMUM THICKNESS FULLY GROUTED NORMAL-WEIGHT CONCRETE WITH 5 MORTAR AND MINIMUM PSI = 1500 PSI AT TIME OF INSTALLATION. SHOT PINS MAY BE INSTALLED INTO THE FACE SHELLS, HORIZONTAL MORTAR JOINTS OR VERTICALLY CENTERED IN THE TOP OF GROUTED CELLS. SHOT PINS SHALL NOT BE INSTALLED IN VERTICAL MORTAR JOINTS OR VERTICALLY CENTERED IN MORTAR JOINTS. NO MORE THAN ONE SHOT PIN MAY BE INSTALLED IN AN INDIVIDUAL MASONRY UNIT CELL AND MUST BE INSTALLED A MINIMUM OF 4" FROM THE EDGE OF THE WALL. SHOT PINS IN MORTAR JOINTS MUST BE A MINIMUM OF 8" FROM THE END OF THE WALL AND SHALL HAVE A MINIMUM OF 4" FROM THE END OF THE WALL.
8. SHOT PIN INSTALLERS SHALL BE CERTIFIED BY HILL AND HAVE A CURRENT HILLI ISSUED OPERATORS LICENSE. SHOT PIN INSTALLATION SHALL MEET ALL OSHA REQUIREMENTS.

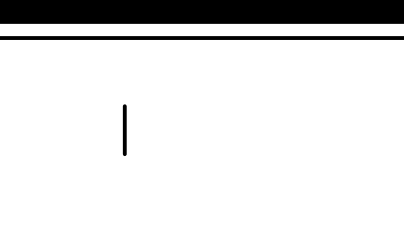
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|  | Drawing Title        |
|  | <b>GENERAL NOTES</b> |

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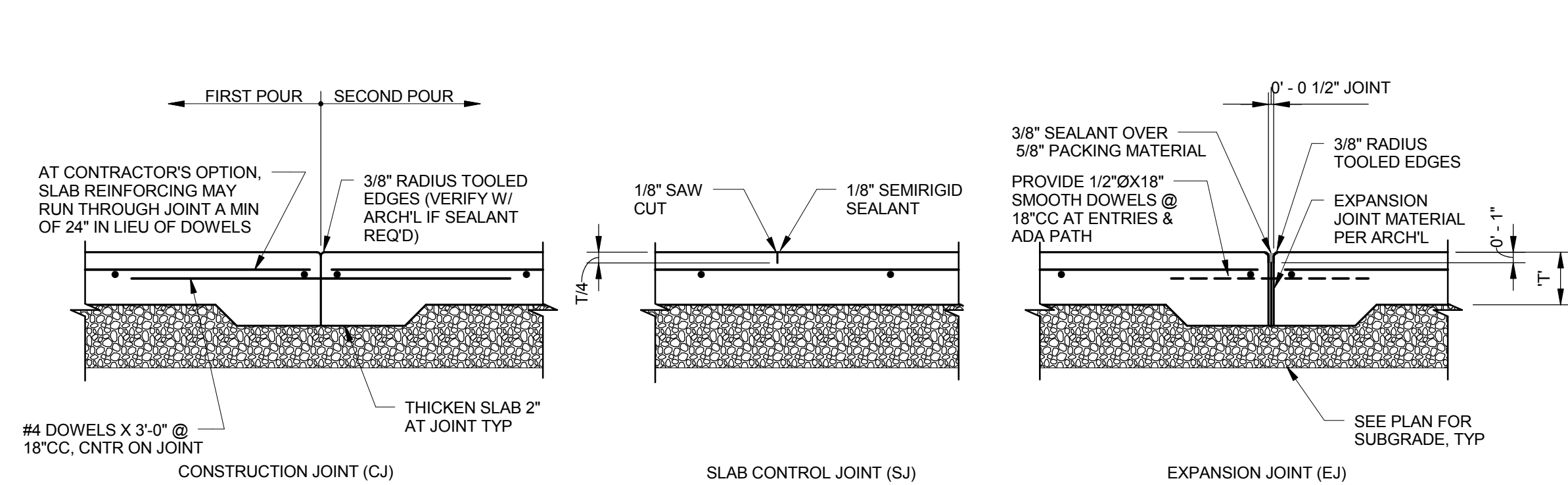
Project Title <b>VA PALO ALTO BLDG 6 ADMINISTRATION EXPANSION</b>			Project Number <b>640-13-121P</b>	
Location VAPAHCS - PALO ALTO, CA			Building Number <b>6</b>	
Date <b>04.17.2014</b>	Checked <b>JDH</b>	Drawn <b>Author</b>	Drawing Number <b>S1.01A</b>	
			Dwg. of	

Department of Veterans Affairs



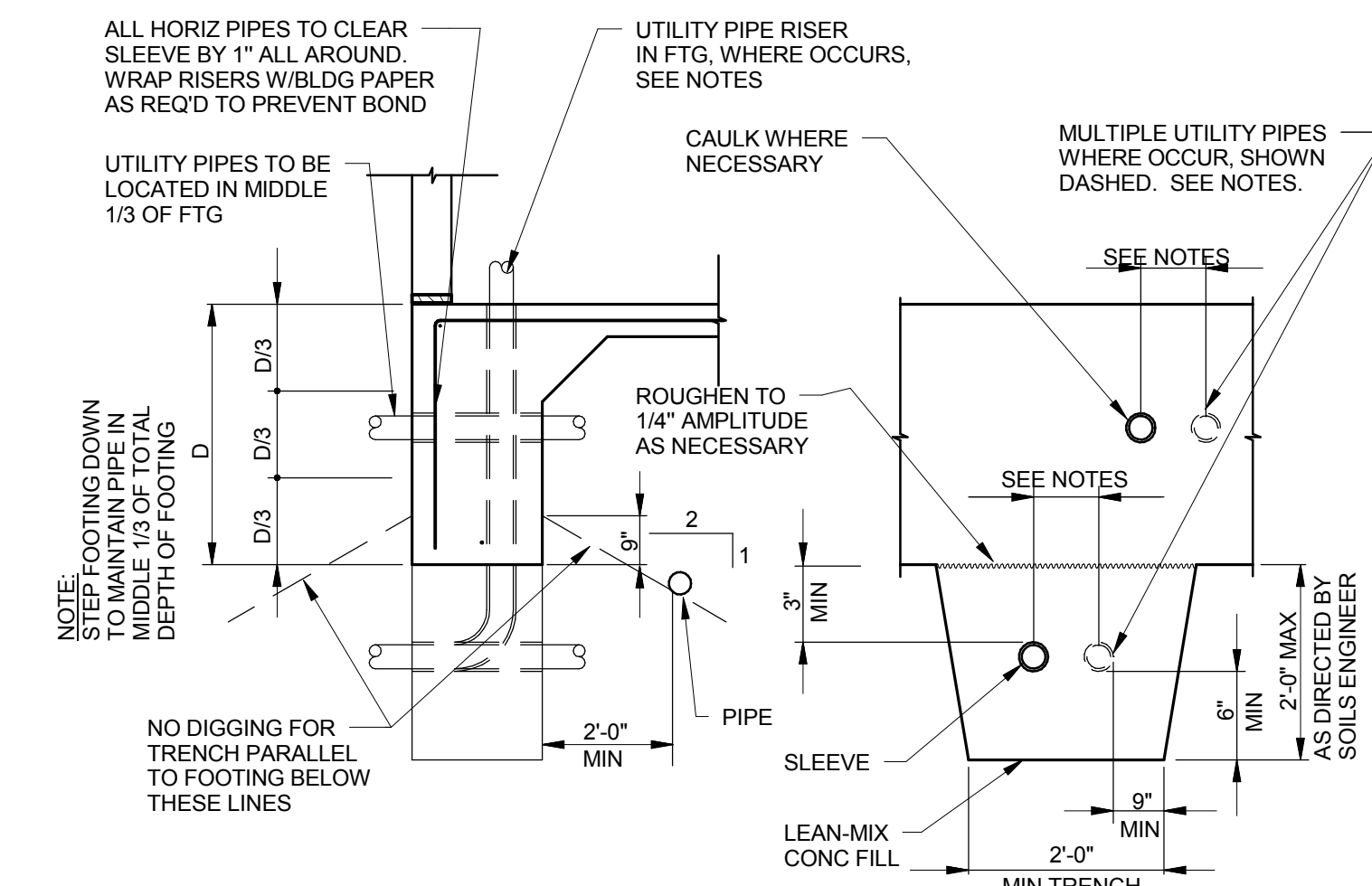


TYPICAL DETAILS  
APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE



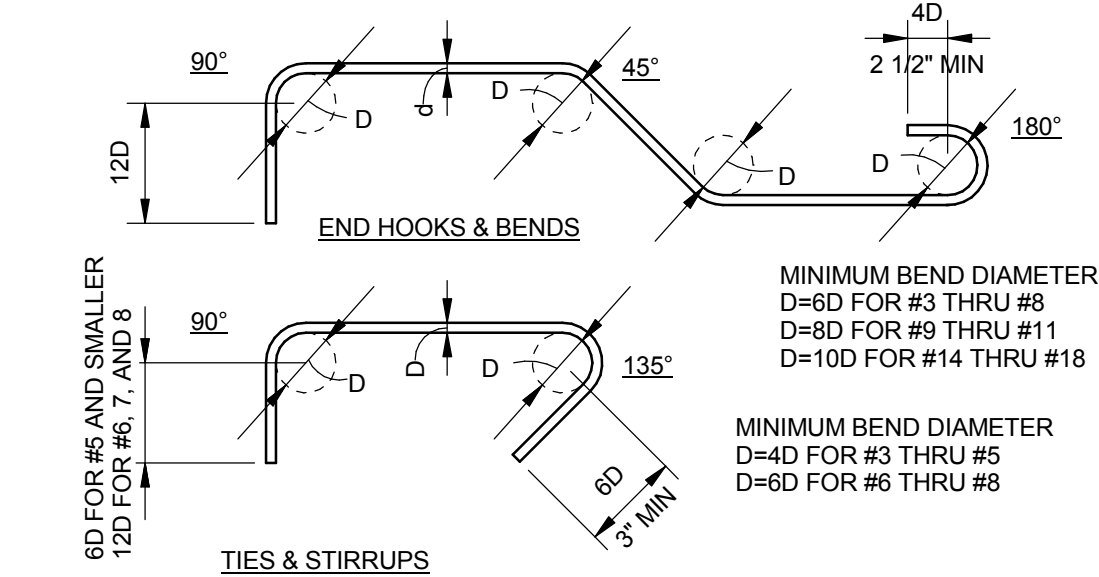
- NOTE:
- CONSTRUCTION JOINTS AND CONTROL JOINTS SHALL DIVIDE SLAB INTO AREAS NOT EXCEEDING 225 SQ FT WITHOUT REENTRANT CORNERS AND WITH LENGTH TO WIDTH RATIOS NOT EXCEEDING 1 1/2 TO 1. JOINT SPACING SHALL NOT EXCEED 15 FEET IN EITHER DIRECTION.
  - CONTRACTOR SHALL SUBMIT LAYOUT PLAN SHOWING PROPOSED CONTROL AND CONSTRUCTION JOINT LOCATIONS TO ARCHITECT & STRUCTURAL ENGINEER FOR REVIEW & APPROVAL.
  - SEMI-RIGID SEALANT TO BE EUCLID EUCO #700 OR EQUAL.

1 SLAB ON GRADE JOINTS  
S1.02A 21080901-12



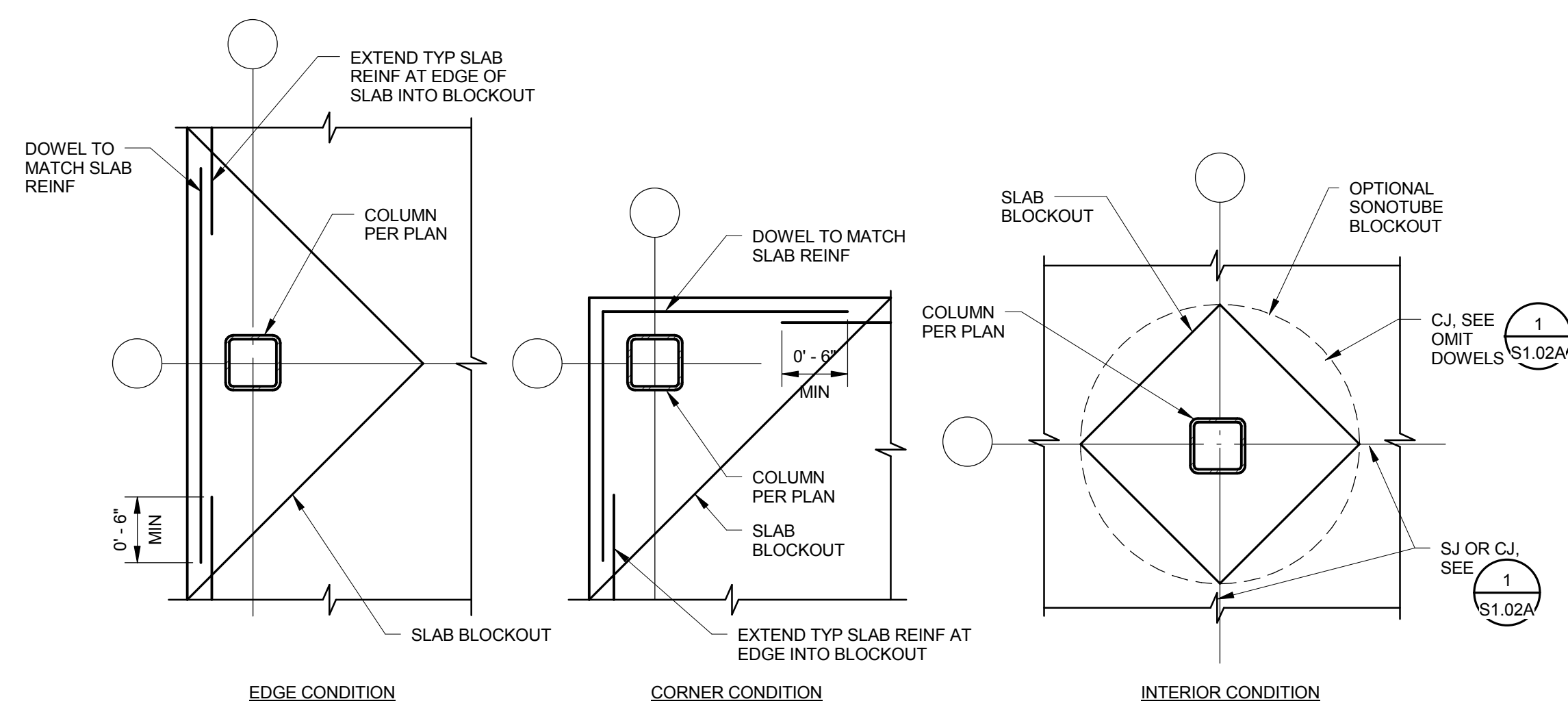
- NOTES:
- REINFORCING SHALL NOT BE INTERRUPTED, CUT OR DISPLACED BY PLACEMENT OF UTILITY PIPE.
  - LEAN MIX CONCRETE FILL TO BE PLACED BEFORE FTG IS CAST (MONO-POUR FTG CONC. OPTIONAL). MAKE SAME WIDTH AS FTG AND FULL WIDTH OF PIPE TRENCH.
  - STEP FTG IF PIPE OCCURS IN LOWER THIRD OF ORIGINAL FOOTING DEPTH.
  - NO PIPES SHALL BE PLACED BELOW SPREAD FTGS OR WITHIN 2 TO 1 BEARING ZONE AROUND SPREAD FOOTING.
  - IF PIPE IS IN PLACE PRIOR TO CASTING CONCRETE, WRAP PIPE W/ 1\"/>
  - UTILITY PIPES ARE NOT ALLOWED PARALLEL IN FOOTING.
  - MULTIPLE UTILITY PIPES (TWO OR MORE) MAY BE INSTALLED AS SHOWN @ LEFT. PROVIDED THEY ARE SPACED A MINIMUM OF 4 PIPE/CONDUIT DIAMETERS ON CENTER WITH A MINIMUM OF 3\"/>
  - UTILITY PIPES RISERS MAY OCCUR IN CONTINUOUS WALL FOOTINGS PROVIDED THEY ARE NO LARGER THAN (FOOTING WIDTH/6) AND OCCUR W/IN THE MIDDLE 1/2 OF THE FOOTING WIDTH. MULTIPLE RISERS MAY OCCUR IF SPACED AS NOTED @ LEFT.
  - UTILITY PIPES PERPENDICULAR TO FOOTINGS AND MORE THAN 2'-0\"/>
  - CONDITIONS NOT CONFORMING TO THE PARAMETERS NOTED ABOVE SHALL BE REVIEWED ON A CASE-BY-CASE BASIS.

5 CONCRETE FOOTINGS AT UTILITY PIPES  
S1.02A 21080901-32



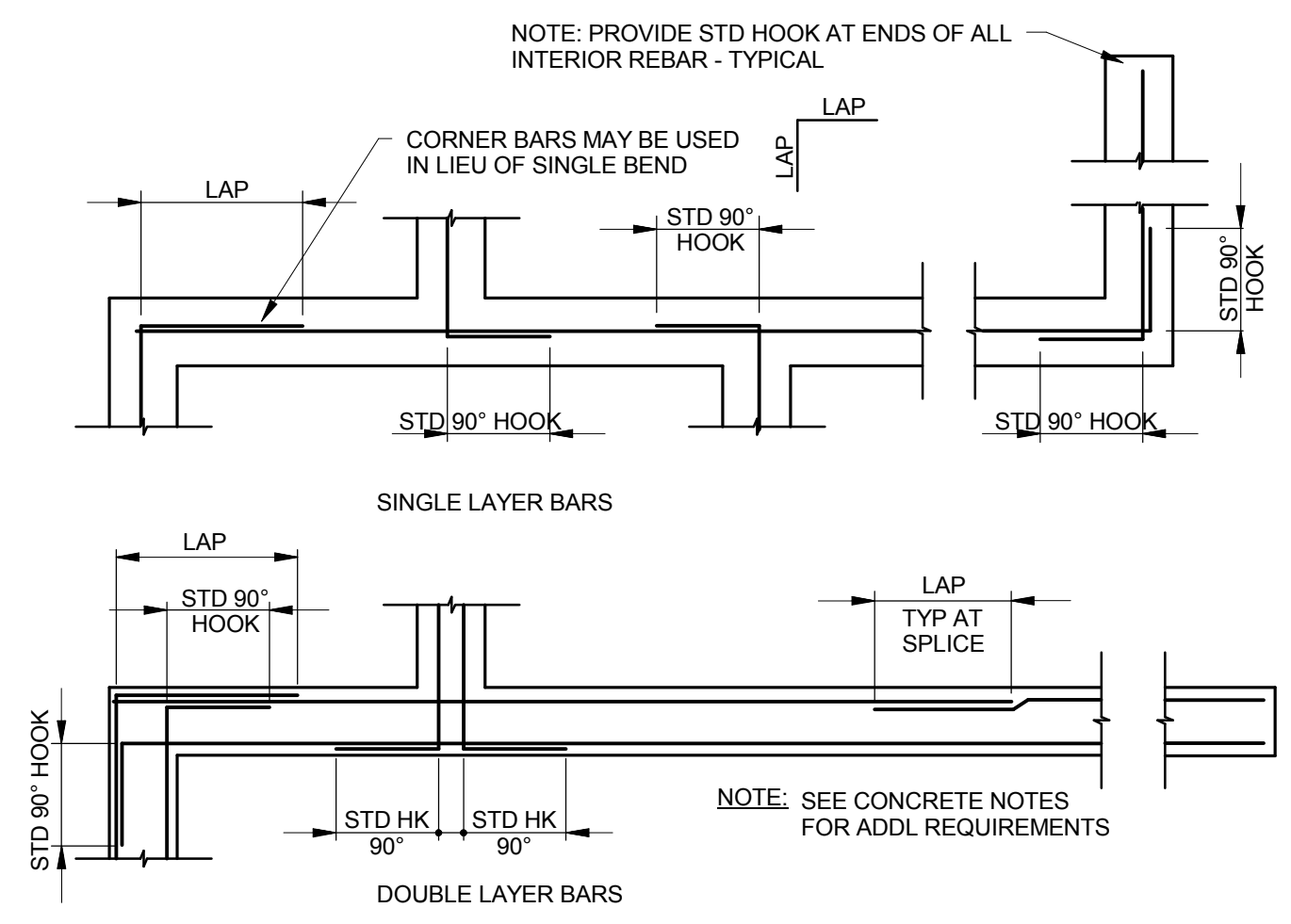
NOTE: ALL HOOKS SHALL BE 90° OR 180° STANDARD HOOKS UNLESS OTHERWISE SHOWN OR NOTED.

6 STANDARD REBAR HOOKS AND BENDS  
S1.02A 31080901-12

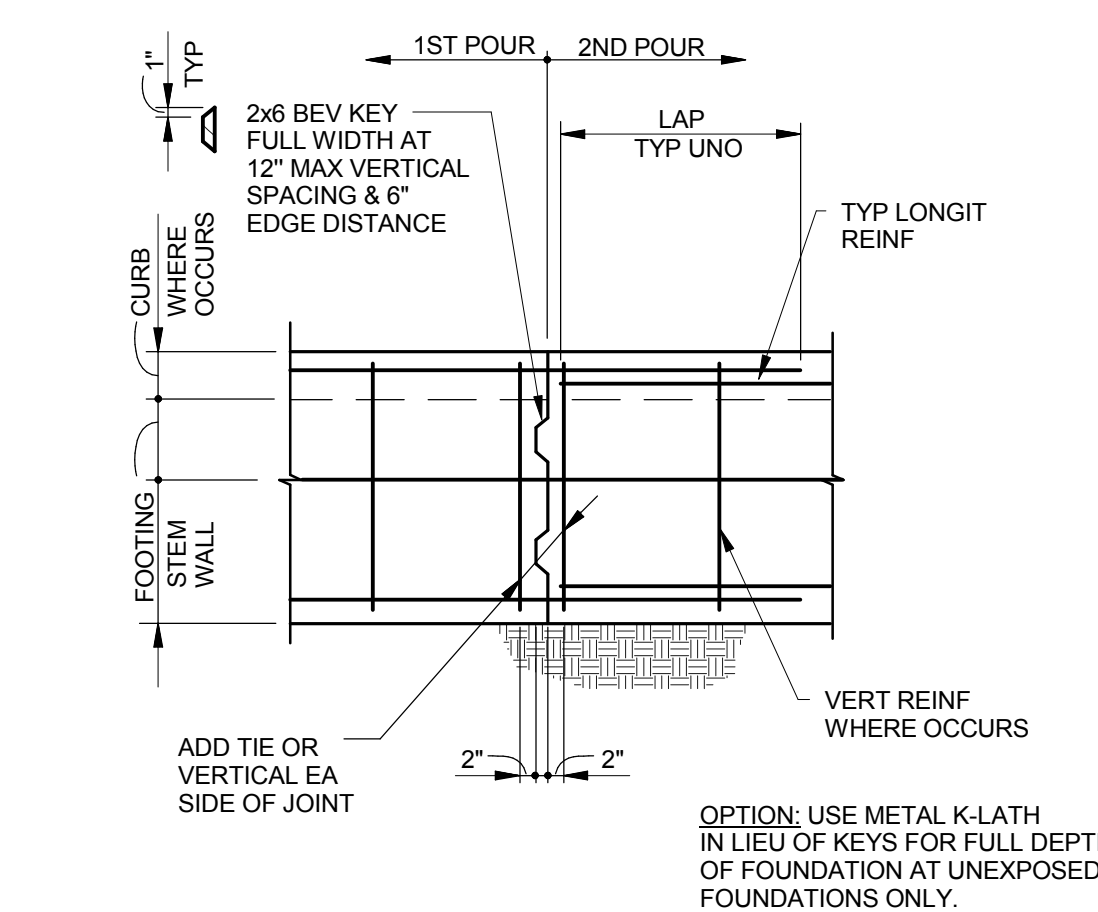


- NOTE:
- SLAB BLOCKOUT SHALL NOT EXTEND BEYOND FOOTING.
  - AT EXPOSED CONCRETE CONDITIONS, COORDINATE BLOCKOUT SHAPE AND SIZE W/ ARCHT. DWGS.

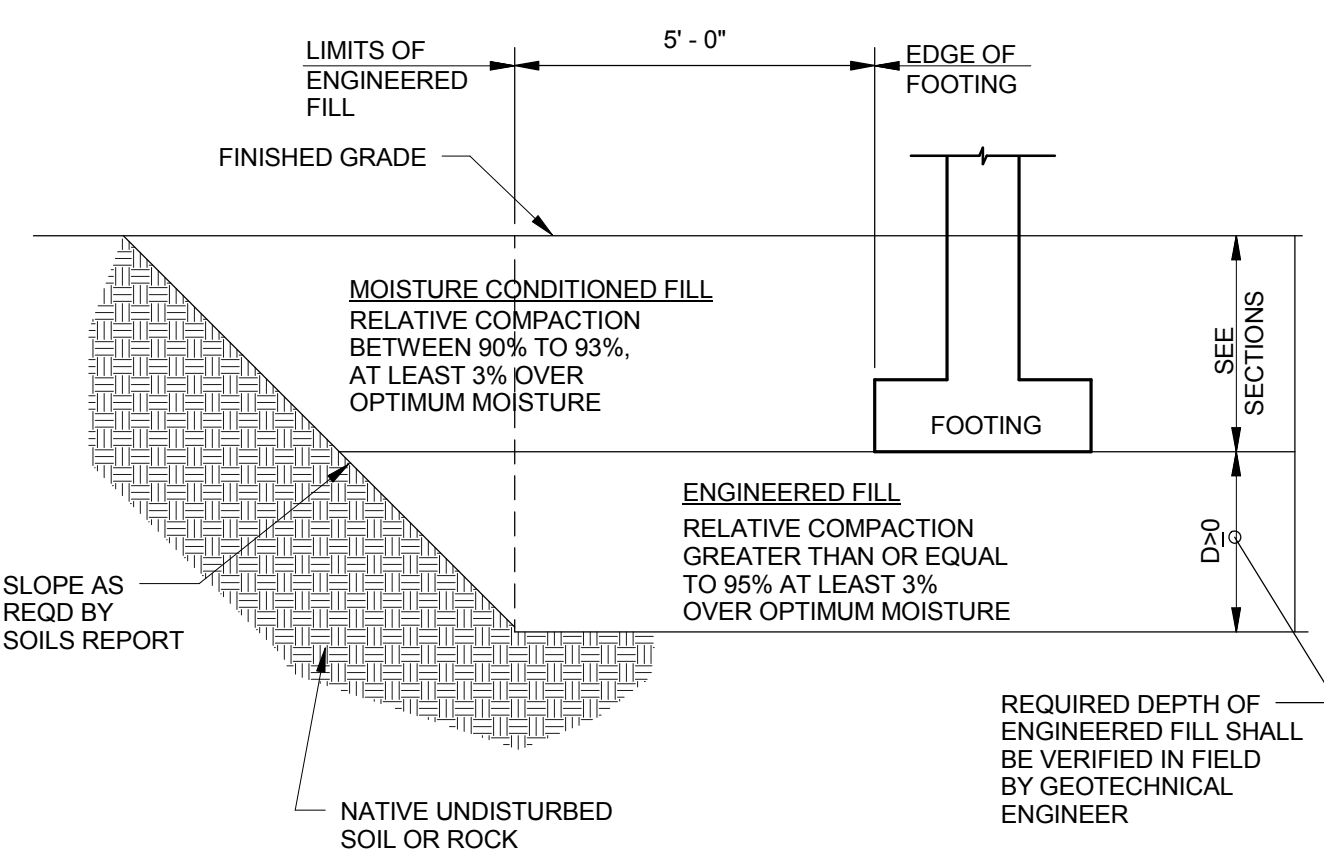
3 SLAB BLOCKOUT  
S1.02A 31080901-12



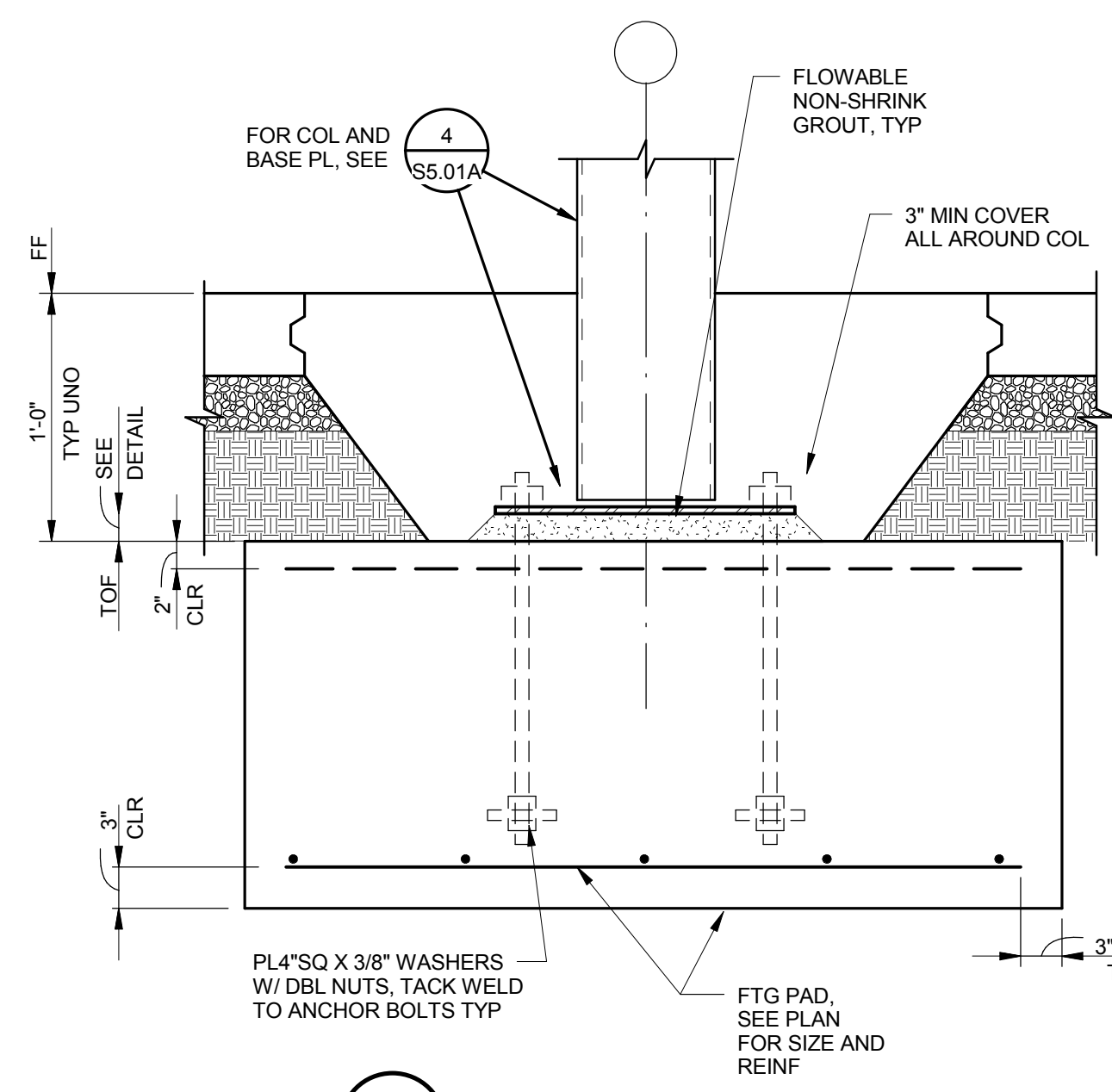
4 CORNER REINFORCING AT CONCRETE FTGS  
S1.02A 31080901-12



12 TYPICAL FOUNDATION CONSTRUCTION JOINT  
S1.02A 21080901-21



14 ENGINEERED FILL SECTION  
S1.02A 21080901-32



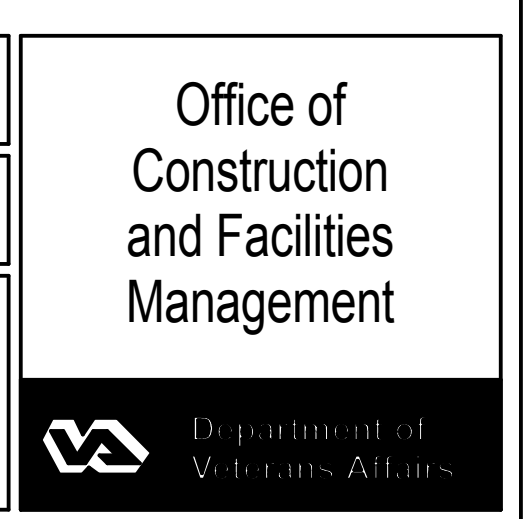
15 DETAIL  
S1.02A 21080901-12

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		CONSULTANTS:				ARCHITECT/ENGINEERS:		Drawing Title		Project Title		Project Number		Office of Construction and Facilities Management	
		<p>Buchler &amp; Buchler Structural Engineers, Inc. 600 Q Street, Suite 200, Sacramento, CA 95811 Tel 916 443 2307 Fax 916 443 2313 Sacramento - Rancho - San Francisco</p>		<p>HILLIARD ARCHITECTS, INC 251 Post Street, Suite 620 San Francisco, CA 94108-5017 Tel 415 989 6400, Fax 415 989 3056 www.HilliardArchitects.com</p>		<b>TYPICAL DETAILS</b>		<b>VA PALO ALTO BLDG 6 ADMINISTRATION EXPANSION</b>		640-13-121P					
Building Number															
6															
Revisions:		Date		Approved: Project Director		Location		Drawing Number							
						VAPAHCS - PALO ALTO, CA		<b>S1.02A</b>							
						Date		Checked							
						04.17.2014		JDH							
								Drawn							
								Author							
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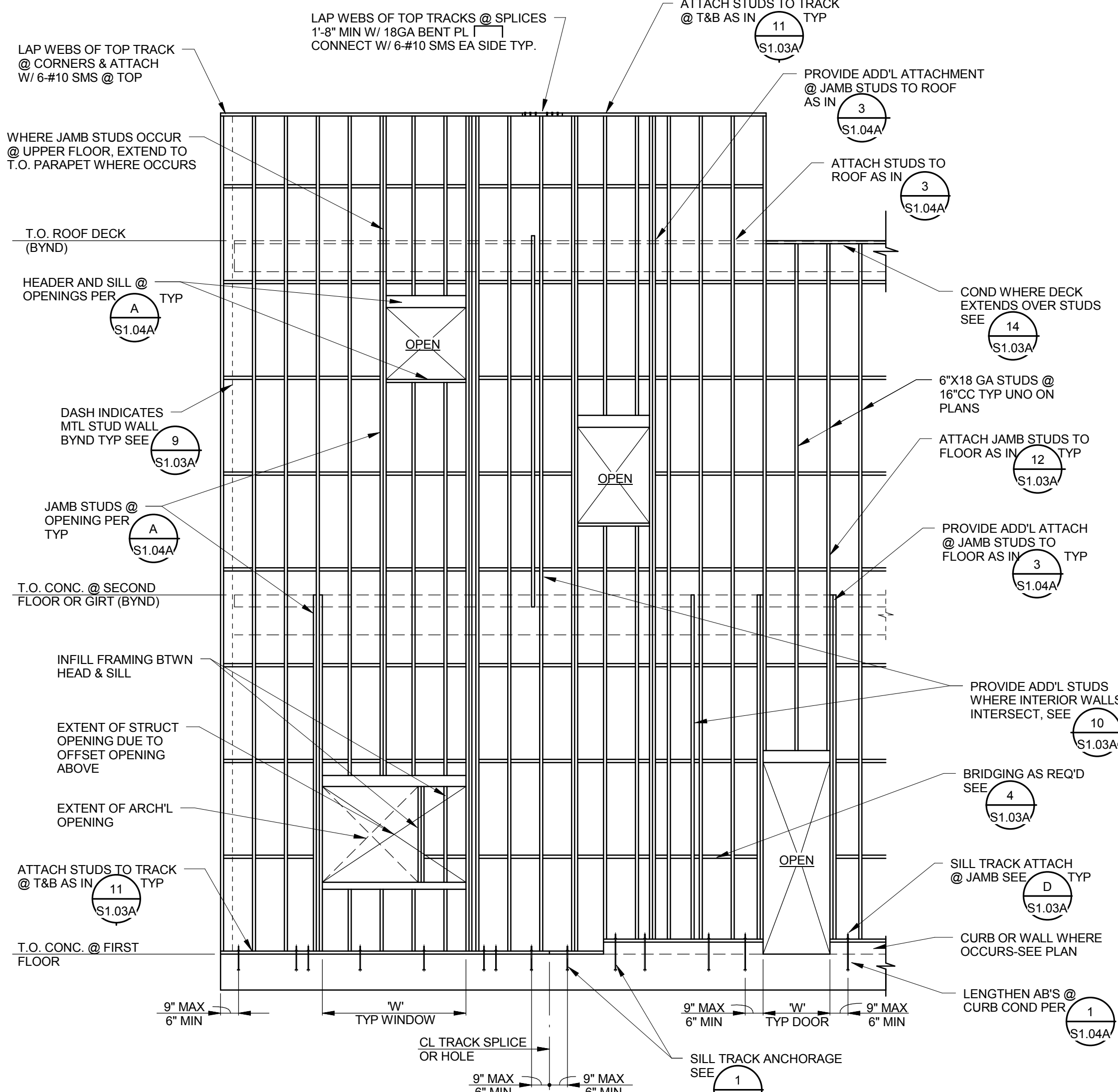




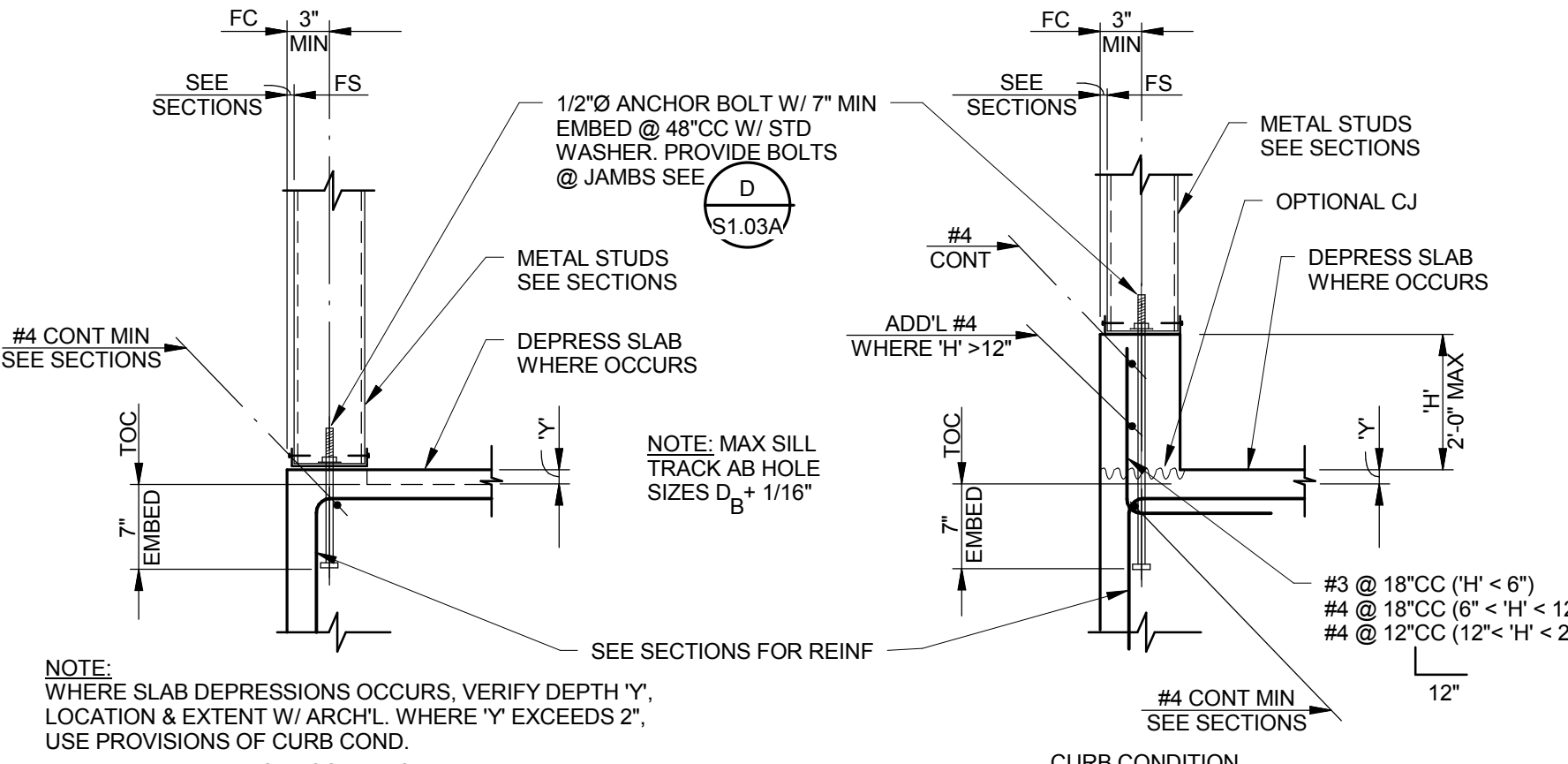
# EXTERIOR WALL OPENING FRAMING SCHEDULE

W' WIDTH MAX	JAMBS	HEADER	SILL			
			20 GA	18 GA	16 GA	14 GA
4'-0"	J2	H4	S2	S2	S1	S1
8'-0"	J3	H4-8	S3	S3	S3	S3
12'-0"	J4	H4-10	S3	S4	S4	S3

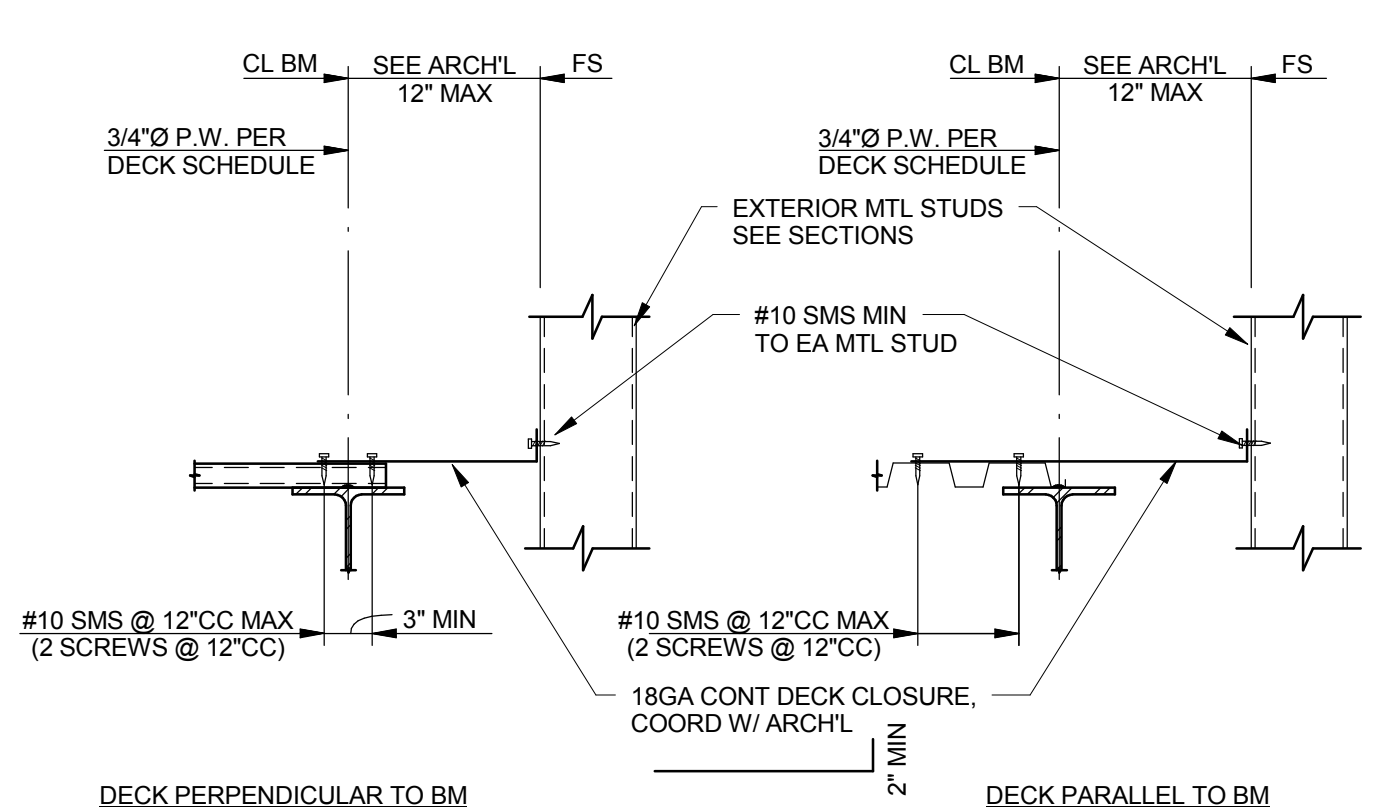
- SEE SHEET S1.03 FOR JAMB, HEADER, AND SILL DETAILS.
- H4-8, H4-10 INDICATES HEADER TYPE AND DEPTH OF VERTICAL STUD ELEMENTS INSIDE HEADER. FOR DETAIL, SEE S1.03A.
- FOR CONNECTION @ BASE OF WALL AT JAMBS, SEE S1.04A.
- FOR CONNECTION @ TOP OF WALL AT JAMBS, SEE S1.04A.



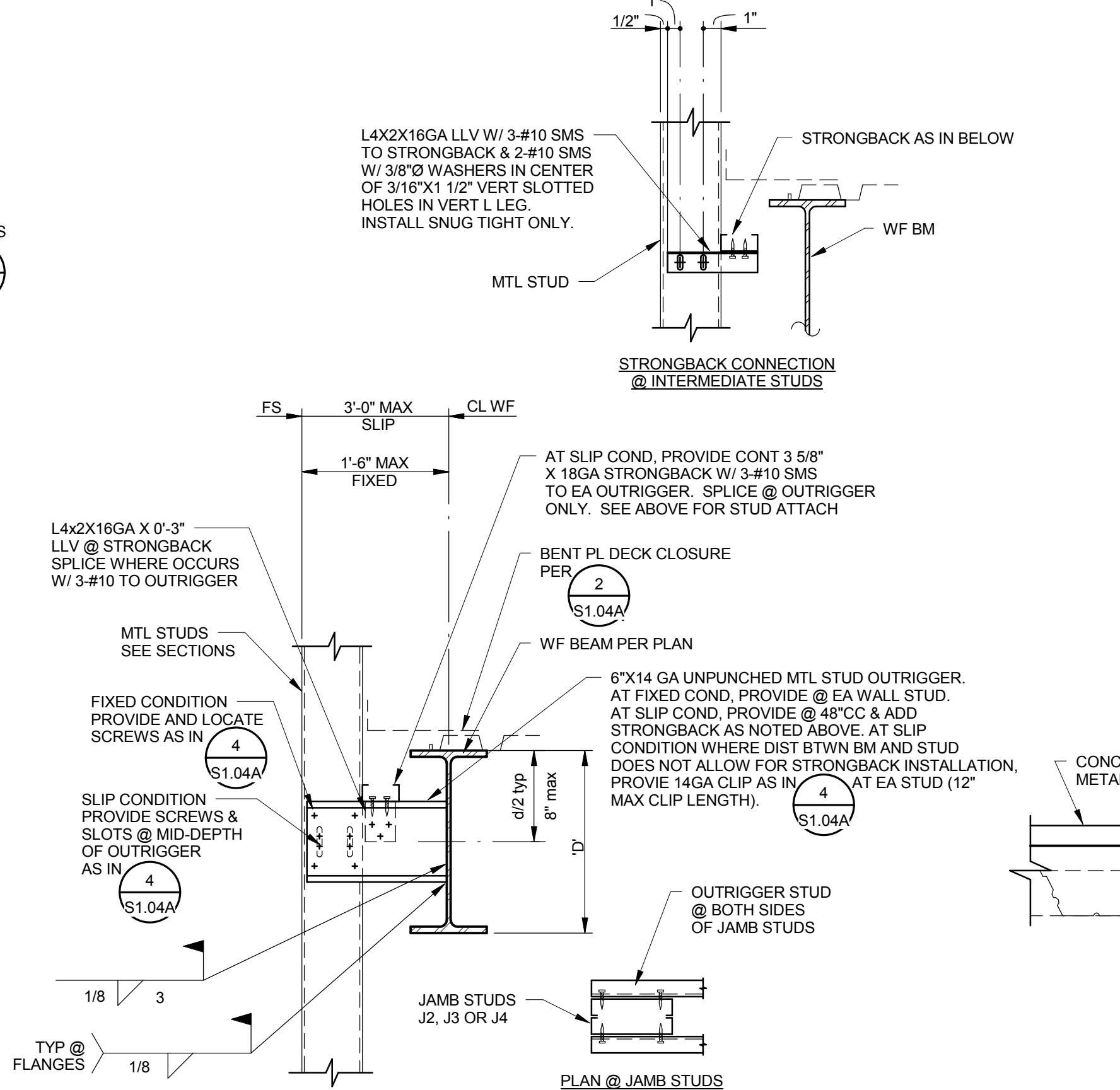
C TYPICAL BALLOON FRAMING ELEVATION



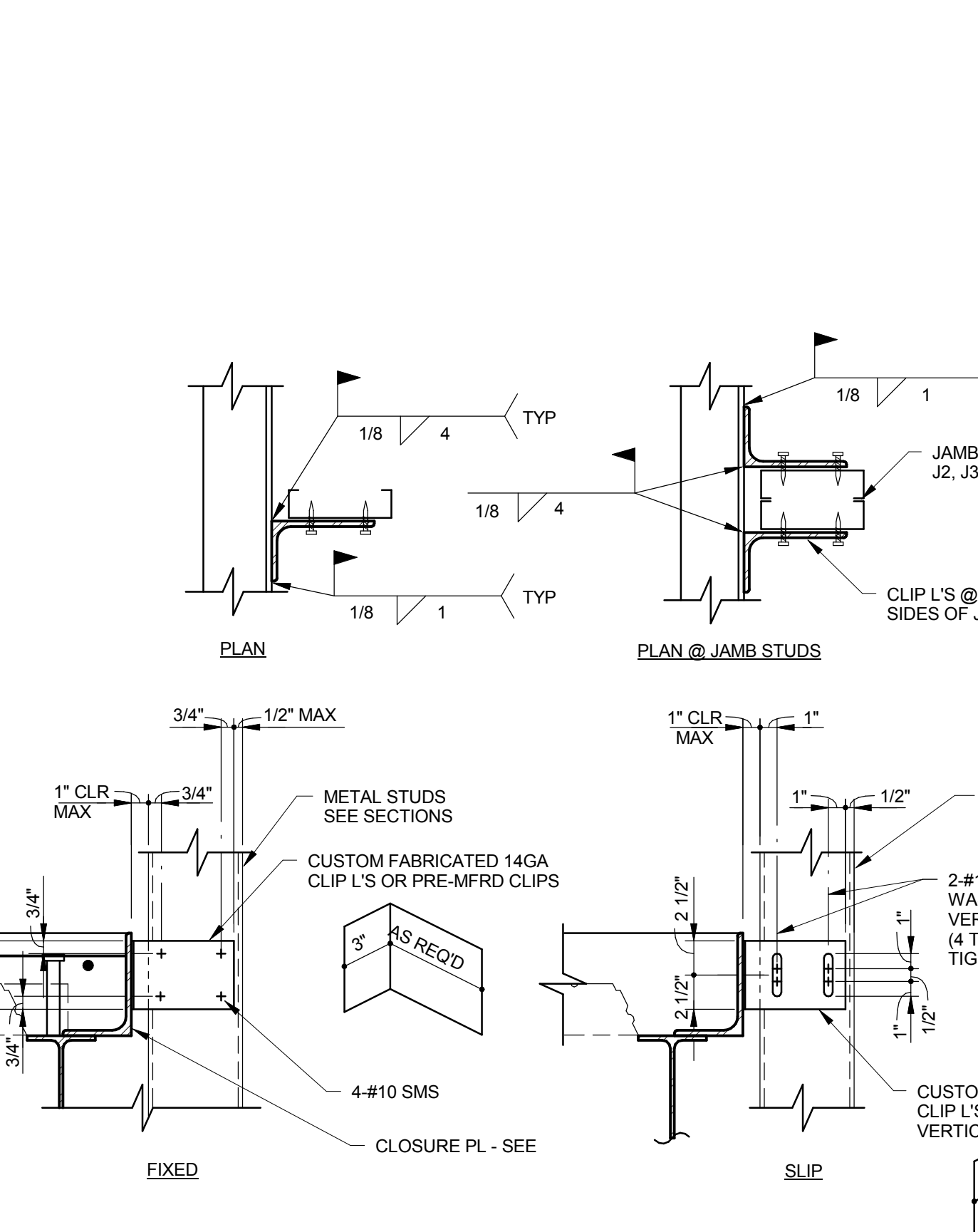
1 EXTERIOR METAL STUD SILL



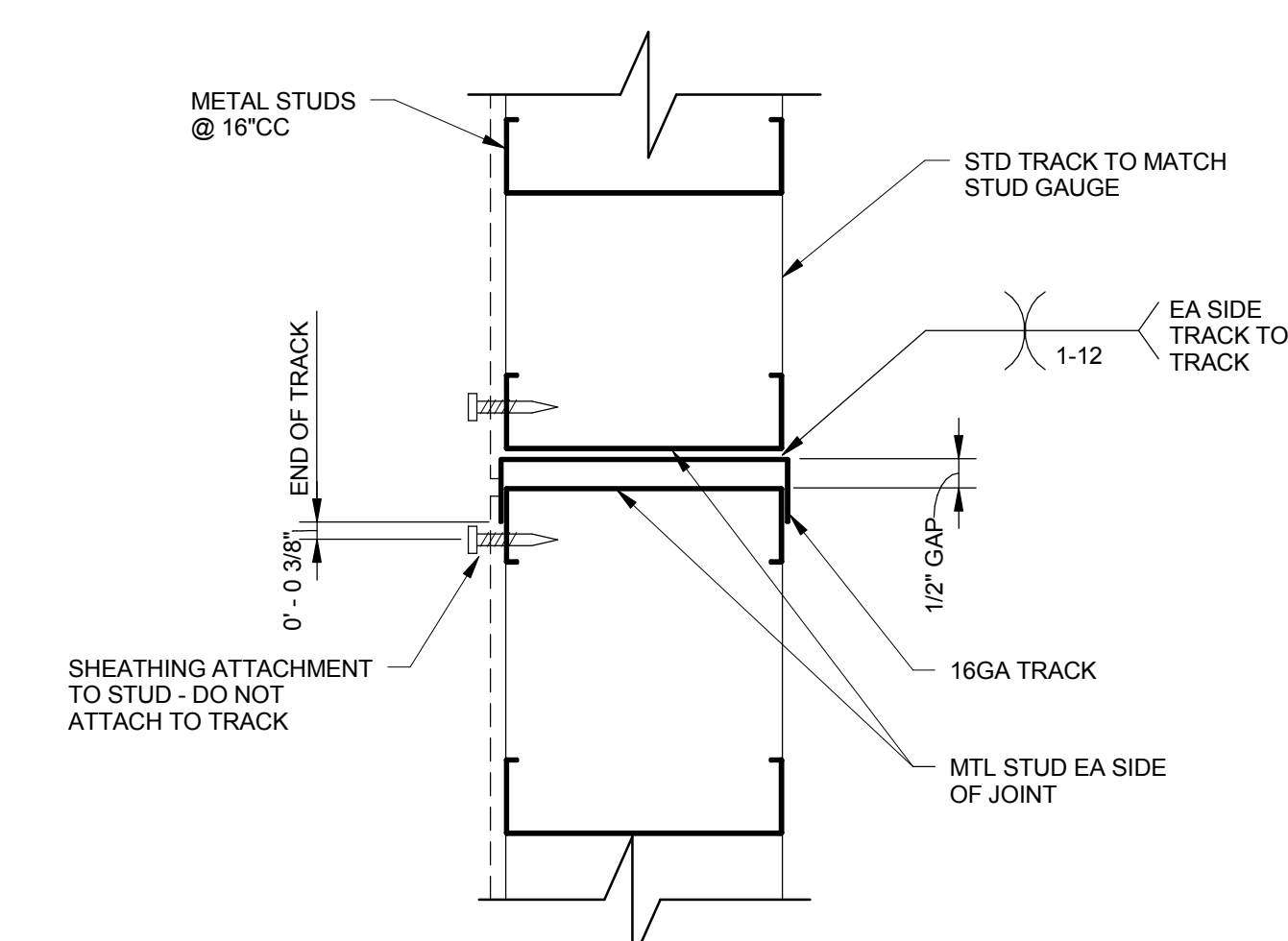
2 DETAIL



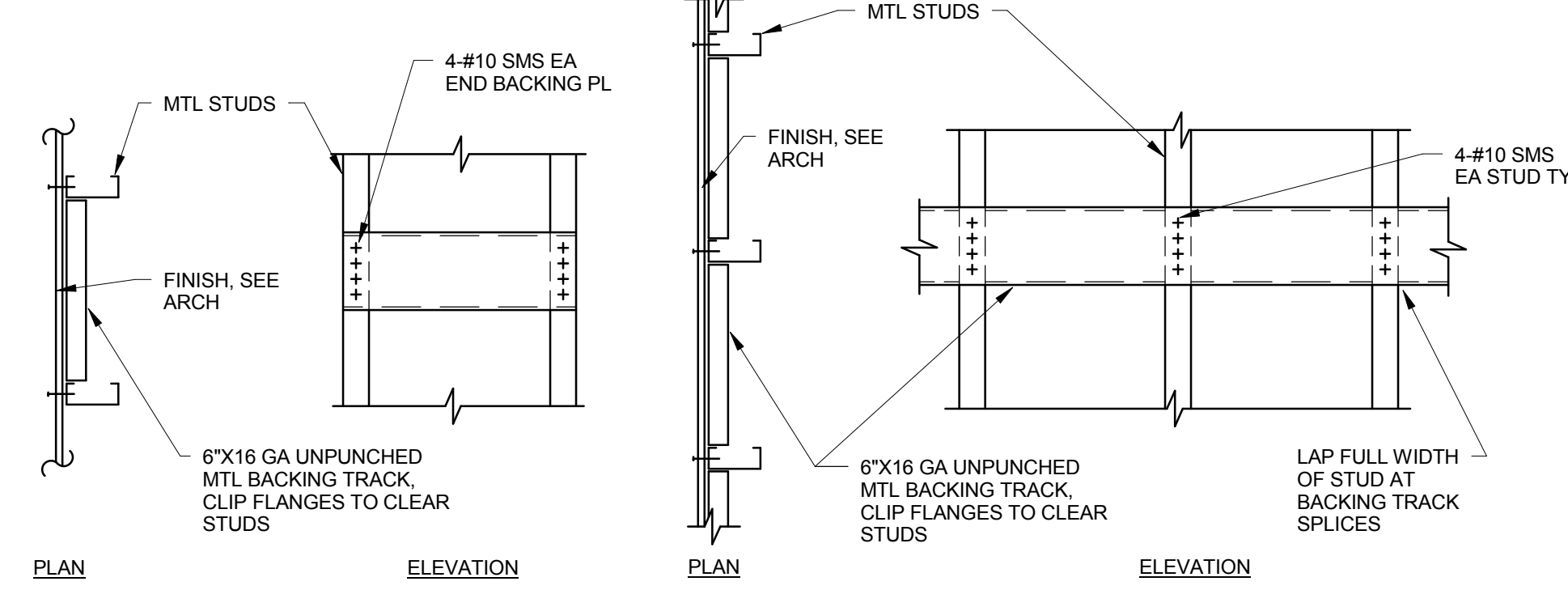
3 DETAIL



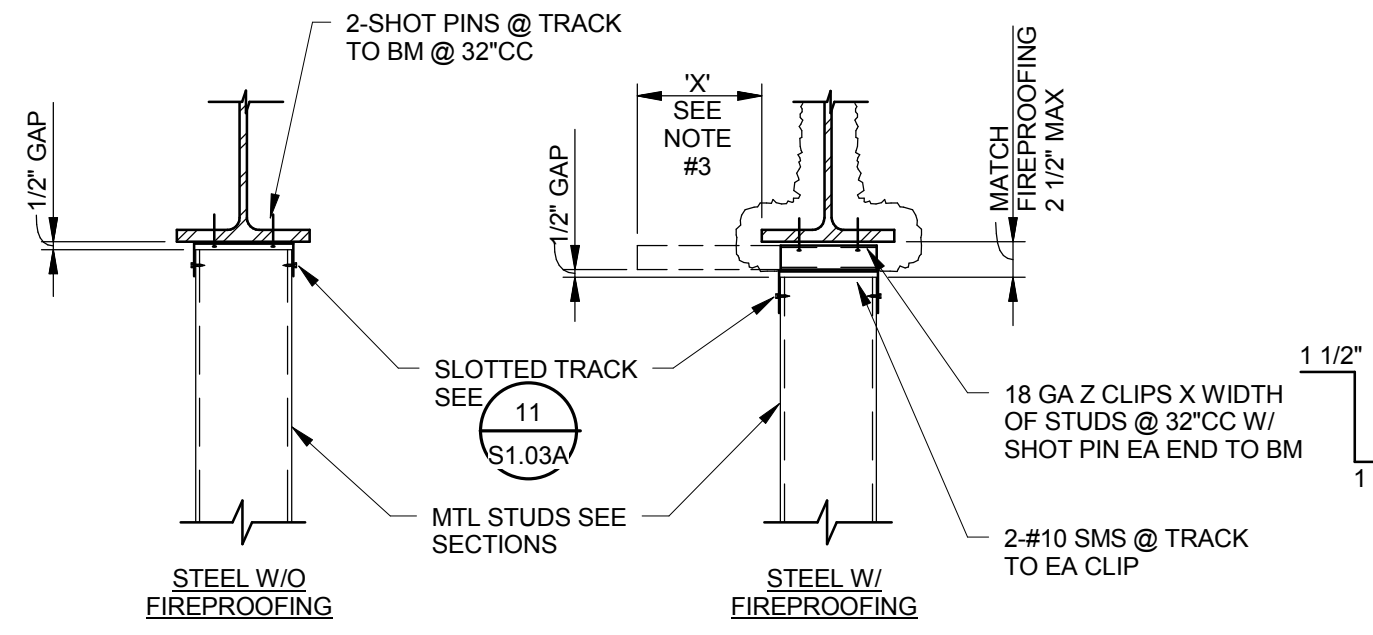
4 DETAIL



5 EXPANSION JOINT DETAIL



TYPICAL BACKING DETAIL



SLIP TRACK TO STEEL BEAM

- NOTES:
- PROVIDE 2 CLIPS AS REQ'D FOR FASTENERS @ JAMB STUDS SEE S1.03A.
  - AT SOFFIT HANGERS, STUDS MAY BE ATTACHED AS SHOWN ABOVE WITH THE FOLLOWING MODIFICATIONS:  
A. USE STD 18 GA DEEP LEG TRACK IN LIEU OF SLIP TRACK. PROVIDE 2-#10 SMS EA SIDE OF HANGER.  
B. WHERE FIREPROOFING OCCURS, USE 14 GA Z CLIPS @ EA HGR. ATTACH TRACK TO CLIPS W/ 3-#10 SMS LOCATED WITHIN 1/2" OF EA EDGE AND AT MIDDLE OF TRACK. ALIGN Z CLIPS W/ HANGERS (S1.12).  
C. WHERE NO FIREPROOFING OCCURS, ATTACH TRACK TO BM WITH 2-SHOT PINS @ 16"CC LOCATED WITHIN 1/2" OF EA EDGE OF TRACK.
  - STUDS & HGRS MAY BE OFFSET FROM BM FLANGE UP TO 9" @ STUDS & 6" @ HGRS WITH THE FOLLOWING MODIFICATIONS:  
A. AT STUDS, PROVIDE 16GA Z CLIP & 3 SHOT PINS EVENLY SPACED WHERE "X">3".  
B. AT HANGERS, WELD CLIP TO BEAM AS SHOWN, WHERE "X">3".

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Revisions:

Date

CONSULTANTS:

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Drawing Title

EXT MTL STUD DETAILS

Approved: Project Director

Project Title

VA PALO ALTO BLDG 6  
ADMINISTRATION  
EXPANSION

Location

VAPAHCS - PALO ALTO, CA

Date

04.17.2014

Checked

JDH

Drawn

Author

Project Number

640-12-121P

Building Number

6

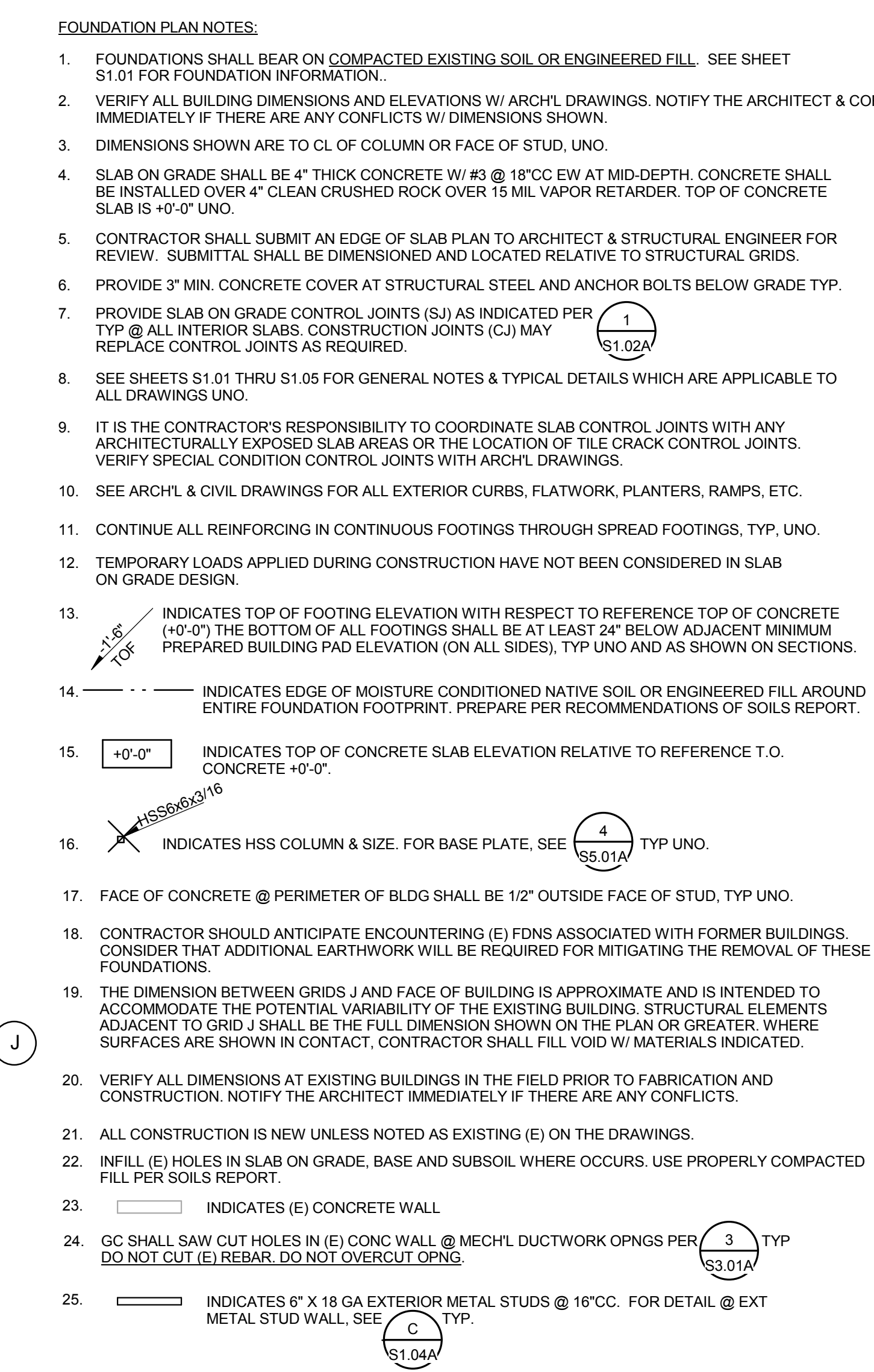
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S1.04A

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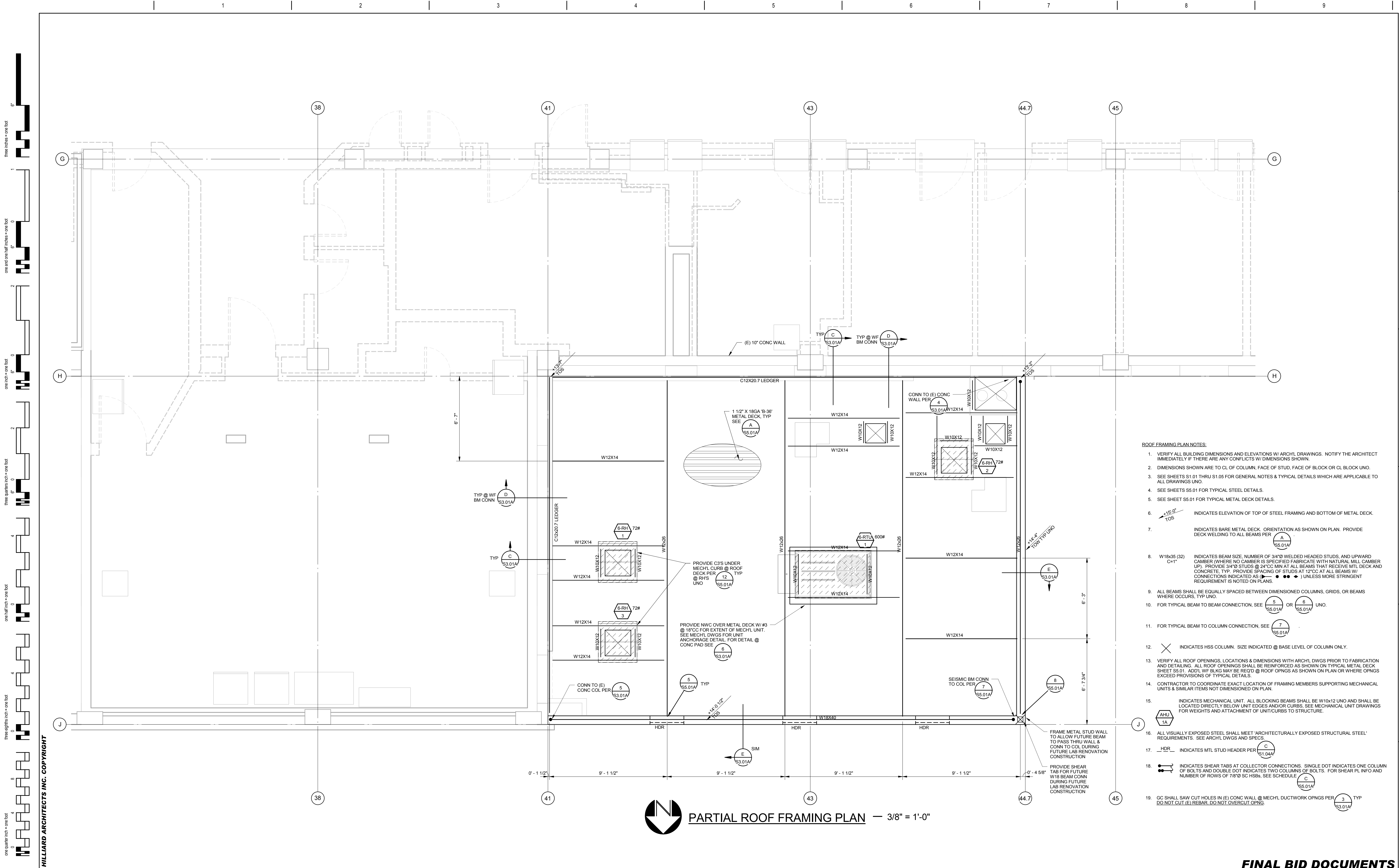
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(43)  
PARTIAL FOUNDATION PLAN — 3/8" = 1'-0"

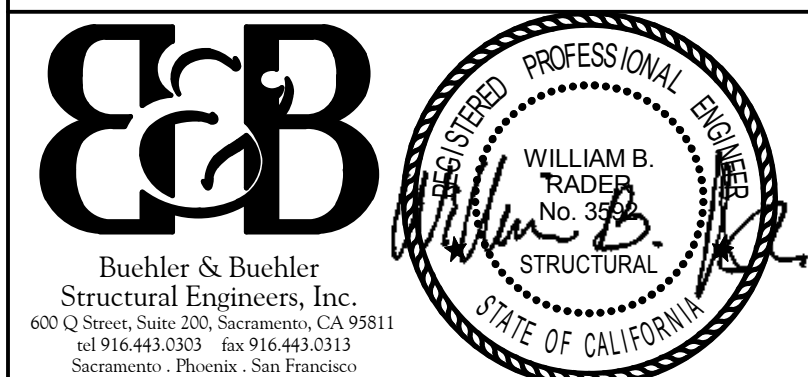


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			<div>Building Number</div> <div>e</div>		<div>Drawing Number</div> <div>S2.01A</div>					
			<div>Approved: Project Director</div>		<div>Location</div> <div>VAPAHCS - PALO ALTO, CA</div>	<div>Date</div> <div>04.17.2014</div>	<div>Checked</div> <div>JDH</div>		<div>Drawn</div> <div>AMA</div>	<div>Dwg. of</div>
Revisions:	Date									



**PARTIAL ROOF FRAMING PLAN** — 3/8" = 1'-0"

- ROOF FRAMING PLAN NOTES:**
1. VERIFY ALL BUILDING DIMENSIONS AND ELEVATIONS W/ ARCH'L DRAWINGS. NOTIFY THE ARCHITECT IMMEDIATELY IF THERE ARE ANY CONFLICTS W/ DIMENSIONS SHOWN.
  2. DIMENSIONS SHOWN ARE TO CL OF COLUMN, FACE OF STUD, FACE OF BLOCK OR CL BLOCK UNO.
  3. SEE SHEETS S1.01 THRU S1.05 FOR GENERAL NOTES & TYPICAL DETAILS WHICH ARE APPLICABLE TO ALL DRAWINGS UNO.
  4. SEE SHEETS S5.01 FOR TYPICAL STEEL DETAILS.
  5. SEE SHEET S5.01 FOR TYPICAL METAL DECK DETAILS.
  6.  $+15.9'$  INDICATES ELEVATION OF TOP OF STEEL FRAMING AND BOTTOM OF METAL DECK.
  7. INDICATES BARE METAL DECK. ORIENTATION AS SHOWN ON PLAN. PROVIDE DECK WELDING TO ALL BEAMS PER  $+15.9'$  UNO.
  8. W18x35 (32) INDICATES BEAM SIZE, NUMBER OF 3/4" WELDED HEADED STUDS, AND UPWARD CAMBER (WHERE NO CAMBER IS SPECIFIED FABRICATE WITH NATURAL MILL CAMBER UP). PROVIDE 3/4" STUDS @ 24" CC MIN AT ALL BEAMS THAT RECEIVE MTL DECK AND CONCRETE. TYP. PROVIDE SPACING OF STUDS AT 12" CC AT ALL BEAMS W/ CONNECTIONS INDICATED AS  $+15.9'$  UNO.
  9. ALL BEAMS SHALL BE EQUALLY SPACED BETWEEN DIMENSIONED COLUMNS, GRIDS, OR BEAMS WHERE OCCURS, TYP UNO.
  10. FOR TYPICAL BEAM TO BEAM CONNECTION, SEE  $+15.9'$  OR  $+15.9'$  UNO.
  11. FOR TYPICAL BEAM TO COLUMN CONNECTION, SEE  $+15.9'$ .
  12.  $\times$  INDICATES HSS COLUMN. SIZE INDICATED @ BASE LEVEL OF COLUMN ONLY.
  13. VERIFY ALL ROOF OPENINGS, LOCATIONS & DIMENSIONS WITH ARCH'L DWGS PRIOR TO FABRICATION AND DETAILING. ALL ROOF OPENINGS SHALL BE REINFORCED AS SHOWN ON TYPICAL METAL DECK SHEET S5.01. ADD'L W/ BLOCKS MAY BE REQ'D @ ROOF OPNGS AS SHOWN ON PLAN OR WHERE OPNGS EXCEED PROVISIONS OF TYPICAL DETAILS.
  14. CONTRACTOR TO COORDINATE EXACT LOCATION OF FRAMING MEMBERS SUPPORTING MECHANICAL UNITS & SIMILAR ITEMS NOT DIMENSIONED ON PLAN.
  15. INDICATES MECHANICAL UNIT. ALL BLOCKING BEAMS SHALL BE W10x12 UNO AND SHALL BE LOCATED DIRECTLY BELOW UNIT EDGES AND/OR CURBS. SEE MECHANICAL UNIT DRAWINGS FOR WEIGHTS AND ATTACHMENT OF UNITS/CURBS TO STRUCTURE.
  16. ALL VISUALLY EXPOSED STEEL SHALL MEET 'ARCHITECTURALLY EXPOSED STRUCTURAL STEEL' REQUIREMENTS. SEE ARCH'L DWGS AND SPECS.
  17. HDR INDICATES MTL STUD HEADER PER  $+15.9'$ .
  18.  $\bullet$  INDICATES SHEAR TABS AT COLLECTOR CONNECTIONS. SINGLE DOT INDICATES ONE COLUMN OF BOLTS AND DOUBLE DOT INDICATES TWO COLUMNS OF BOLTS. FOR SHEAR PL INFO AND NUMBER OF ROWS OF 7/8" SC HSBS, SEE SCHEDULE  $+15.9'$ .
  19. GC SHALL SAW CUT HOLES IN (E) CONC WALL @ MECH'L DUCTWORK OPNGS PER  $+15.9'$  TYP. DO NOT CUT (E) REBAR. DO NOT OVERCUT DENG.

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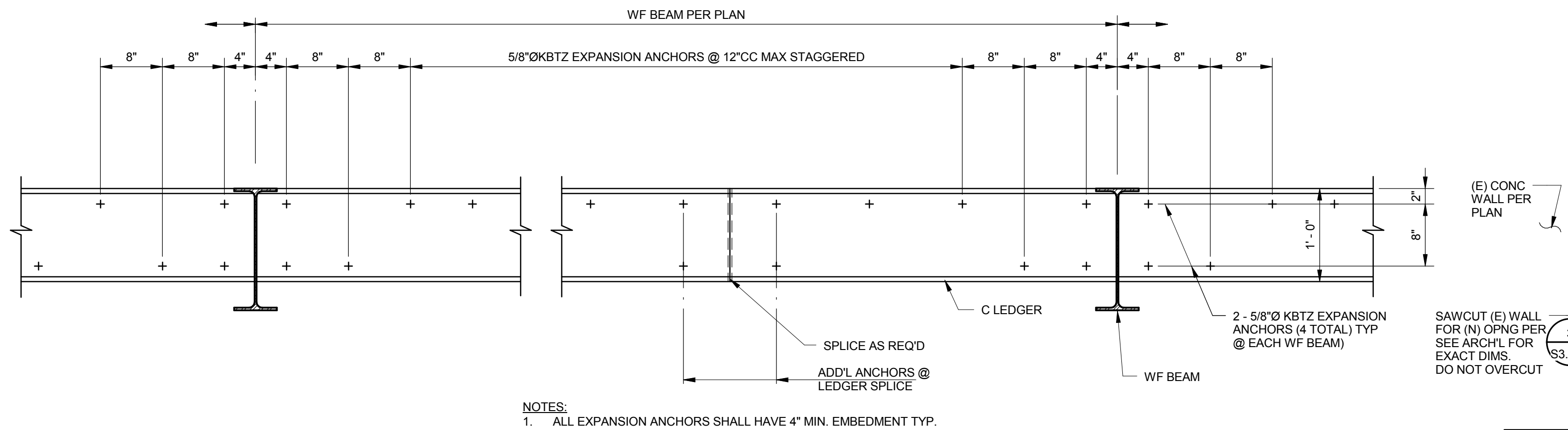
<b>CONSULTANTS:</b>  Buchler & Buchler Structural Engineers, Inc. 600 Q Street, Suite 200, Sacramento, CA 95811 tel 916.443.2200 fax 916.443.2013 Sacramento Phoenix San Francisco		<b>ARCHITECT/ENGINEERS:</b>  <b>HILLIARD ARCHITECTS, INC</b> 251 Post Street, Suite 620 San Francisco, CA 94108-5017 Tel 415 989 6400, Fax 415 989 3056 www.HilliardArchitects.com		<b>Drawing Title</b> <b>PARTIAL ROOF FRAMING PLAN</b>  <b>Approved:</b> Project Director	<b>Project Title</b> <b>VA PALO ALTO BLDG 6</b> <b>ADMINISTRATION</b> <b>EXPANSION</b>  <b>Location</b> VAPAHCS - PALO ALTO, CA  <b>Date</b> 04.17.2014 <b>Checked</b> JDH <b>Drawn</b> Author	<b>Project Number</b> <b>640-13-121P</b>  <b>Building Number</b> 6  <b>Drawing Number</b> <b>S2.02A</b>  Dwg. of	<b>Office of</b> Construction and Facilities Management  
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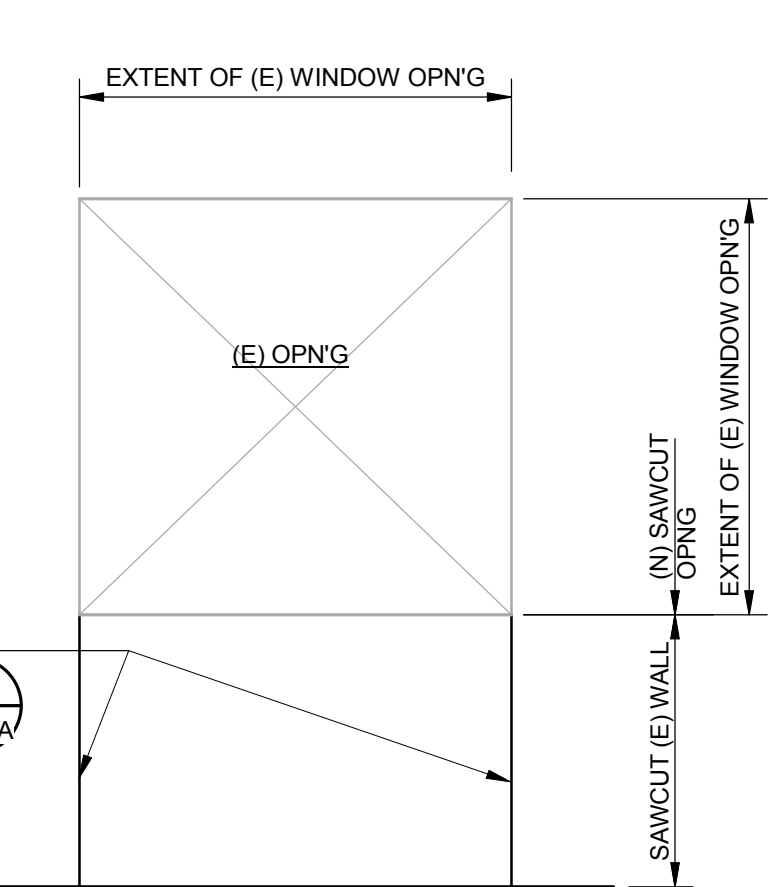


one eighth inch = one foot  
one quarter inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one inch = one foot  
one and one half inches = one foot  
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ninety nine inches = one foot  
one hundred inches = one foot

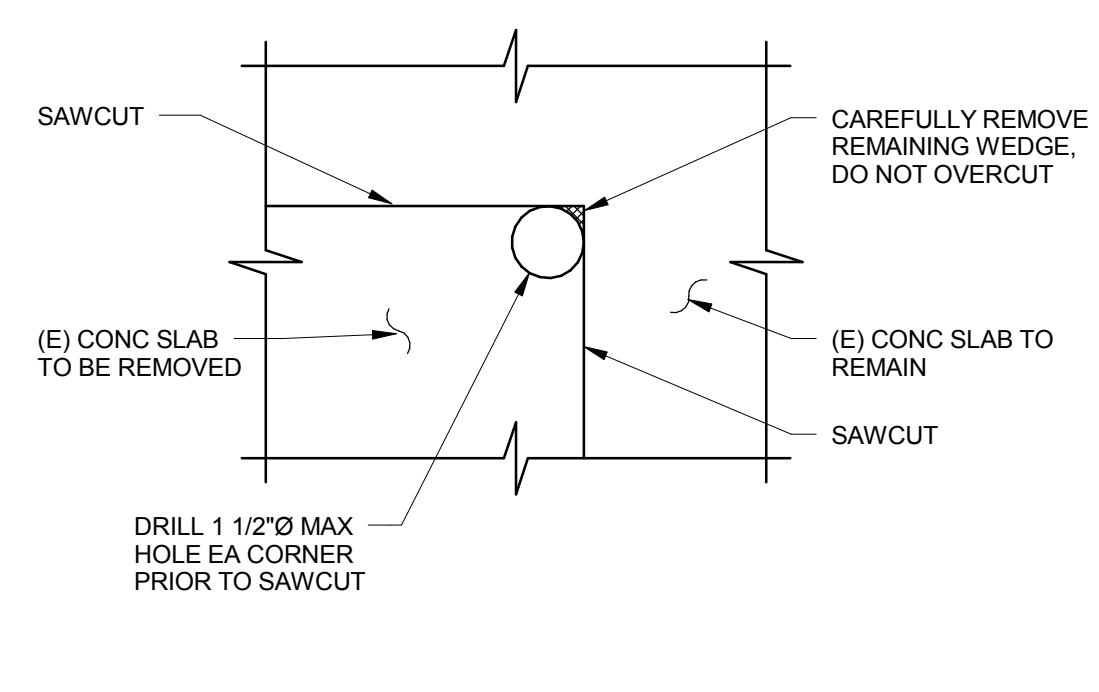
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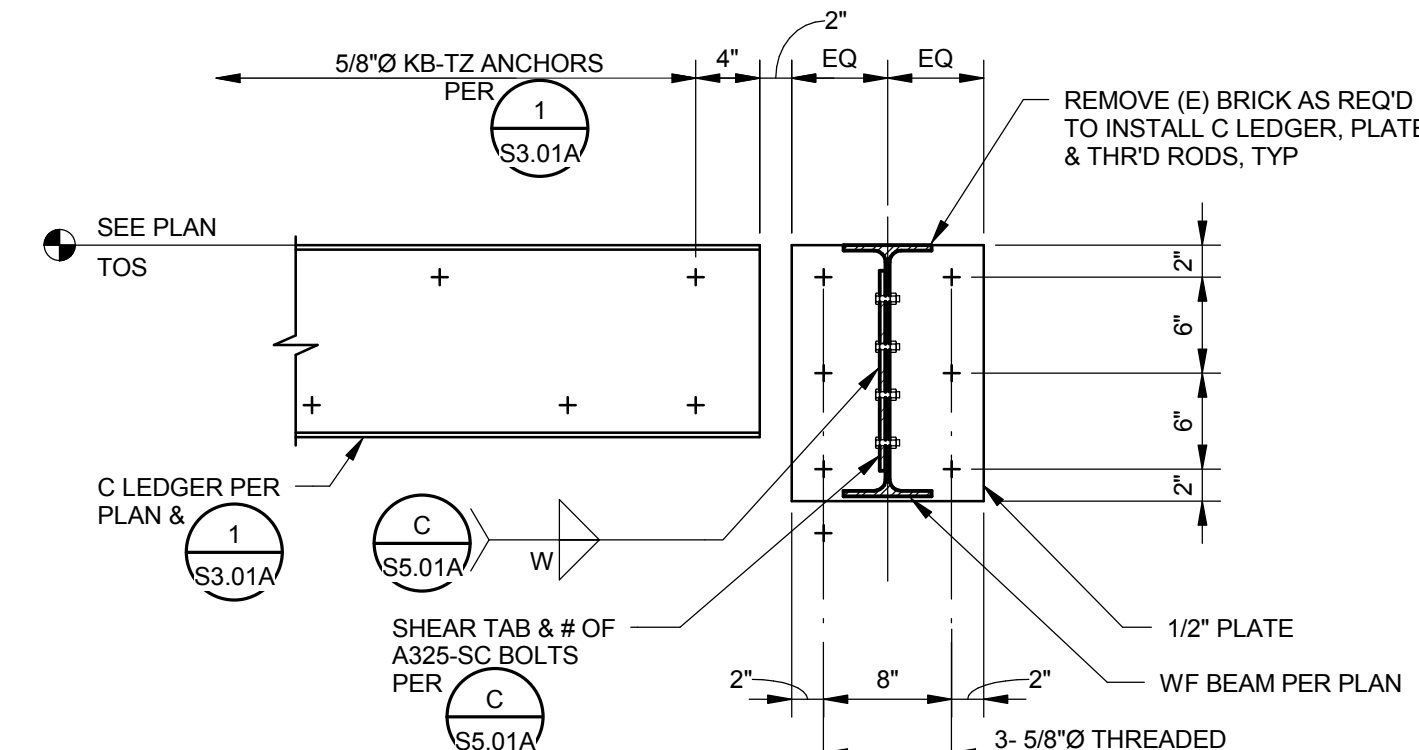
ELEVATION 1 S3.01A 1" = 1'-0"



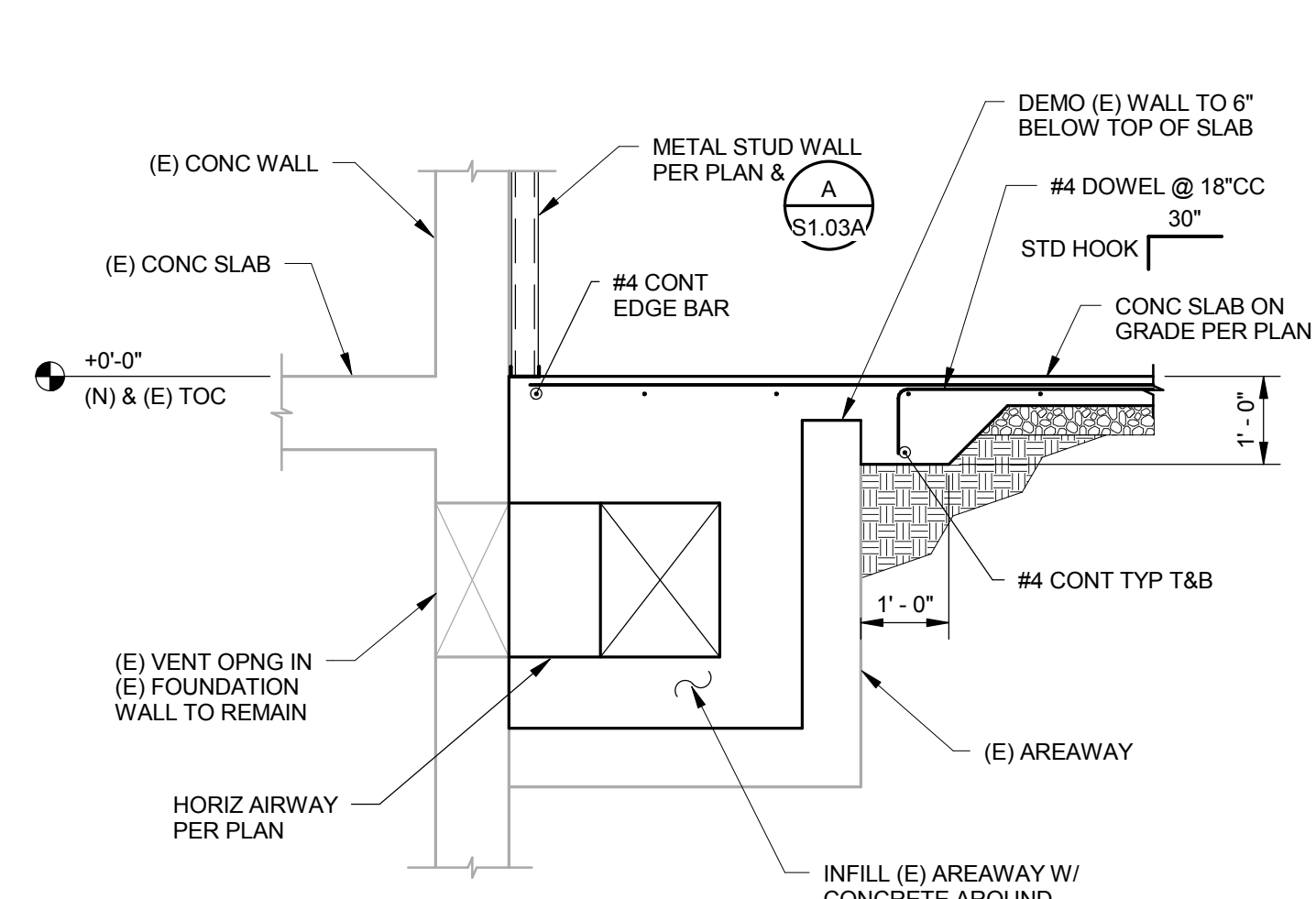
ELEVATION 2 S3.01A 1" = 1'-0"



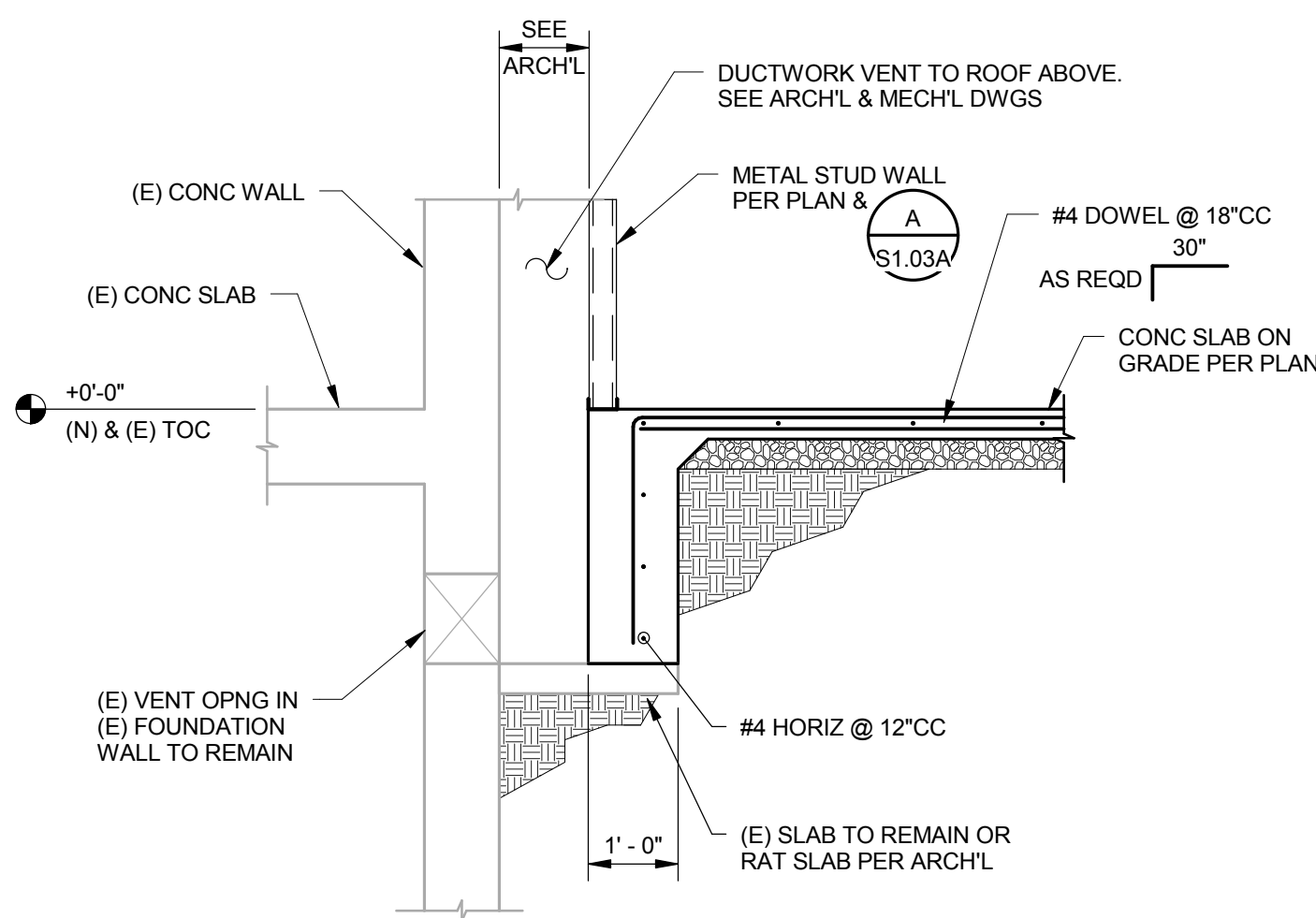
SAWCUT OPENING IN EXISTING SLAB OR WALL S3.01A 1" = 1'-0"



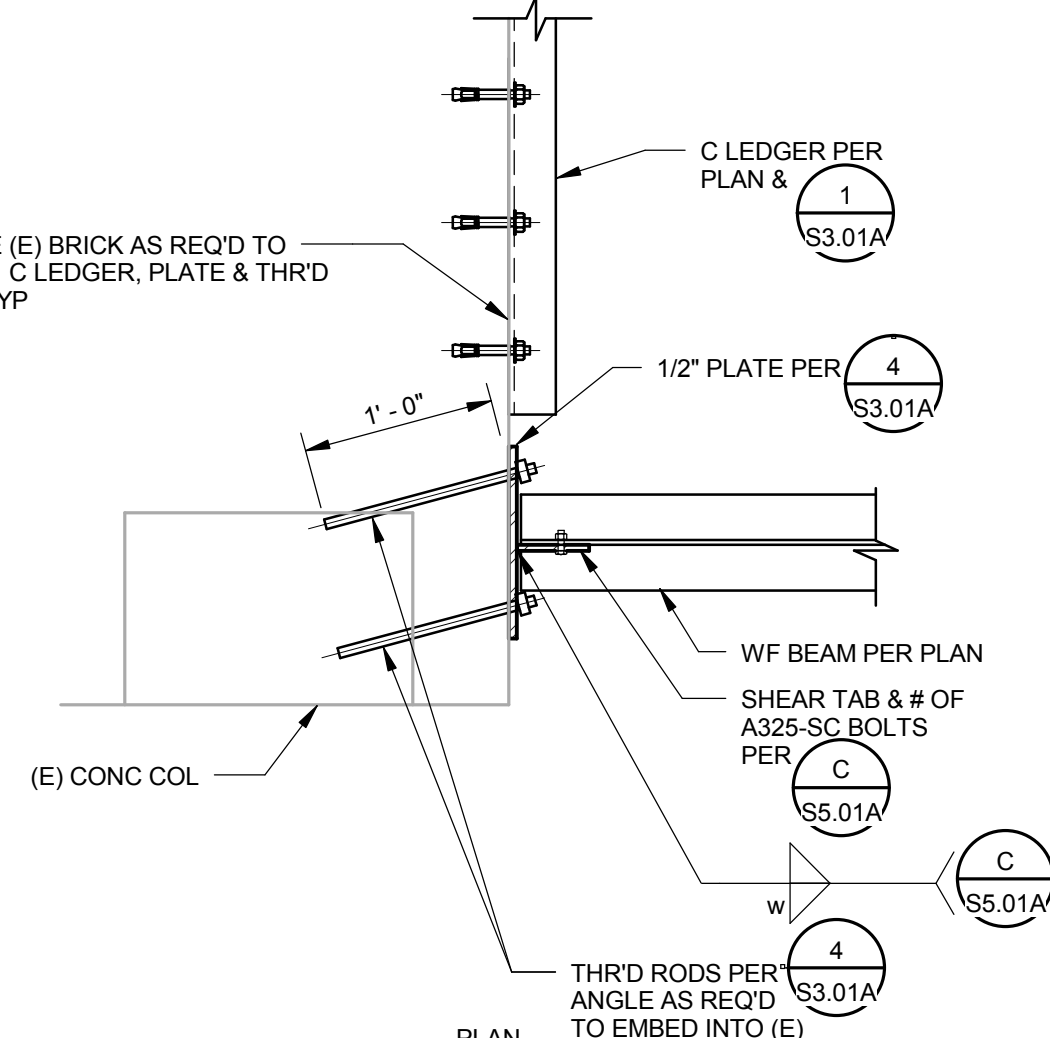
DETAIL 4 S3.01A 1" = 1'-0"



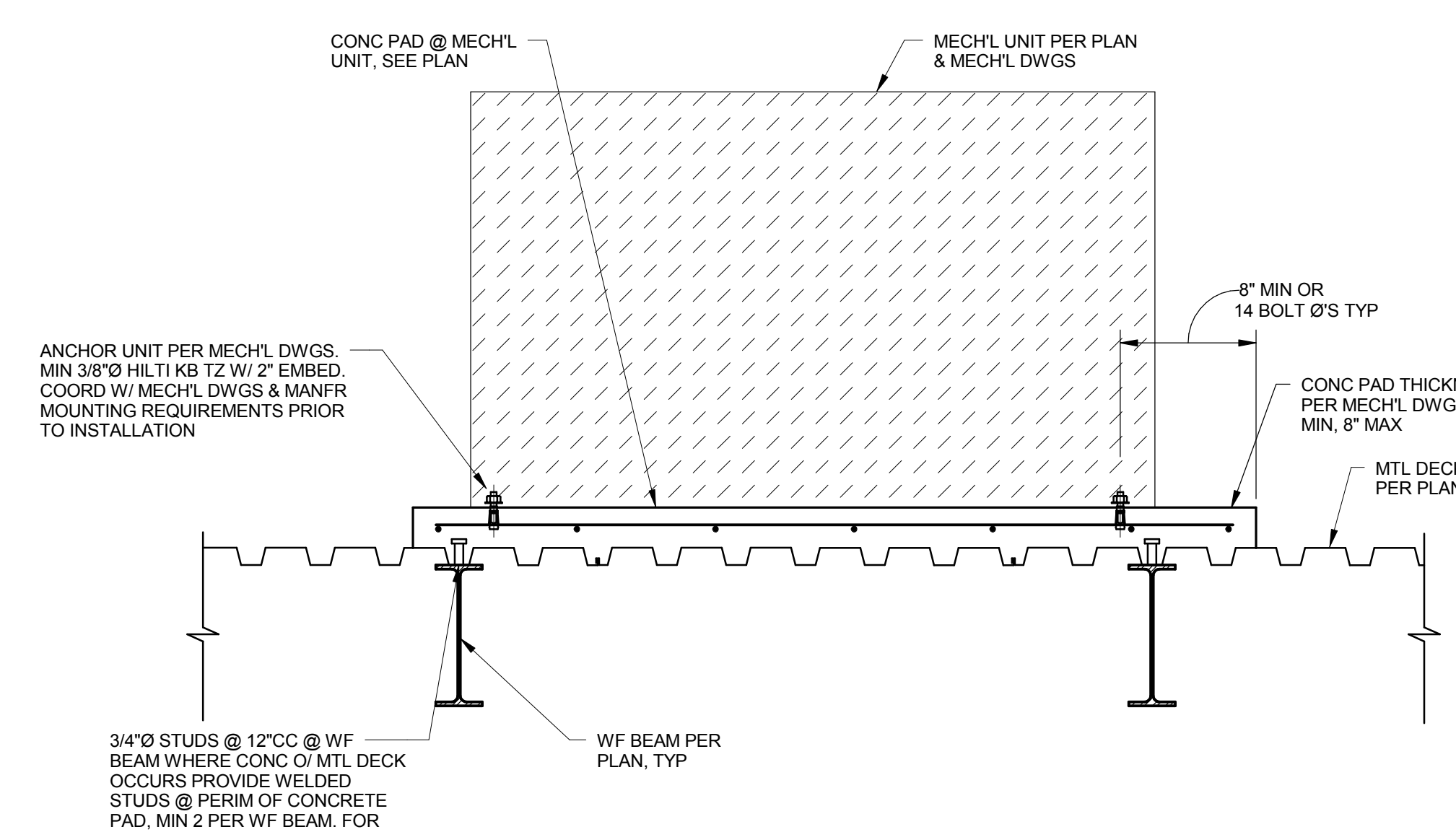
SECTION F S3.01A 1/2" = 1'-0"



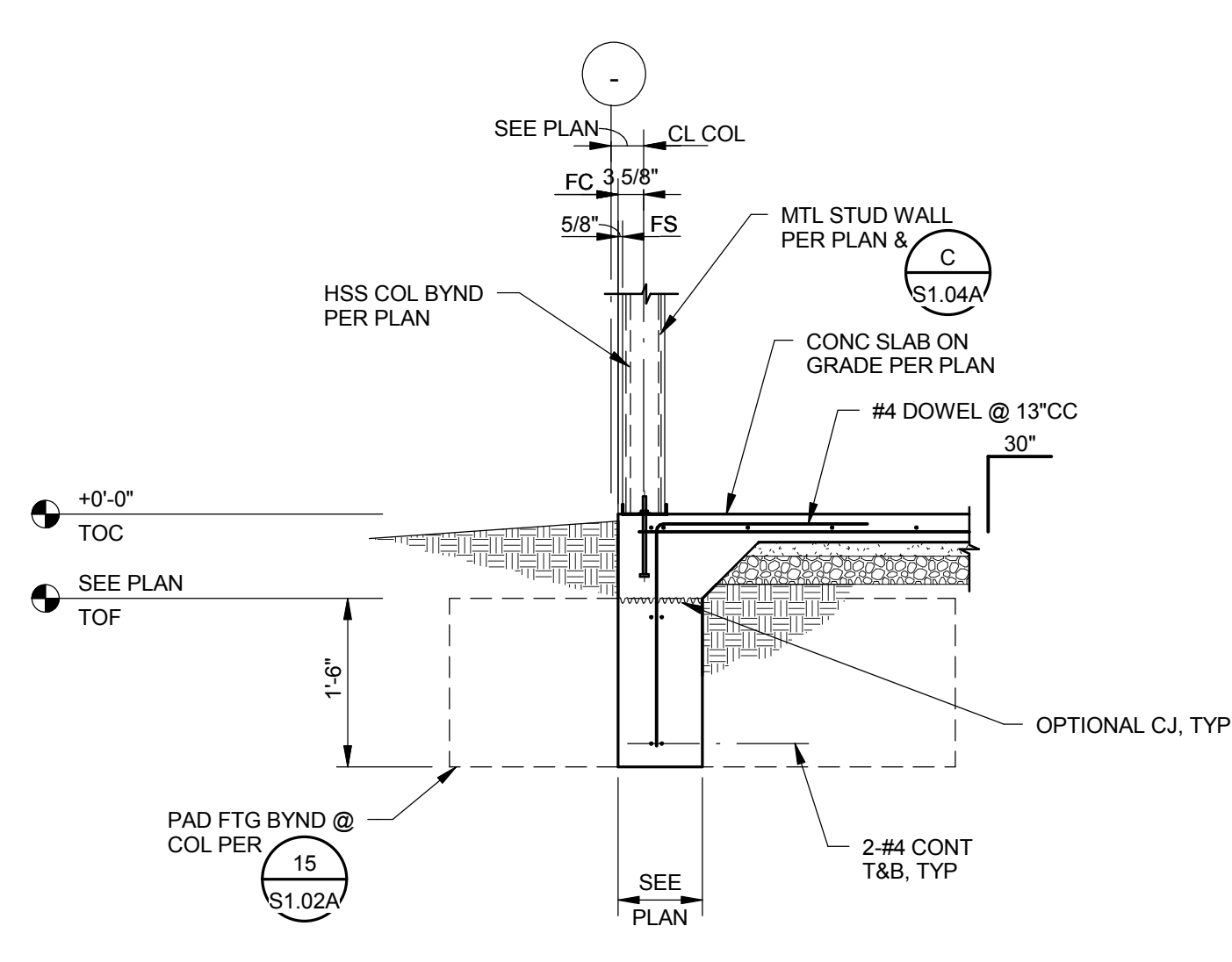
SECTION G S3.01A 1/2" = 1'-0"



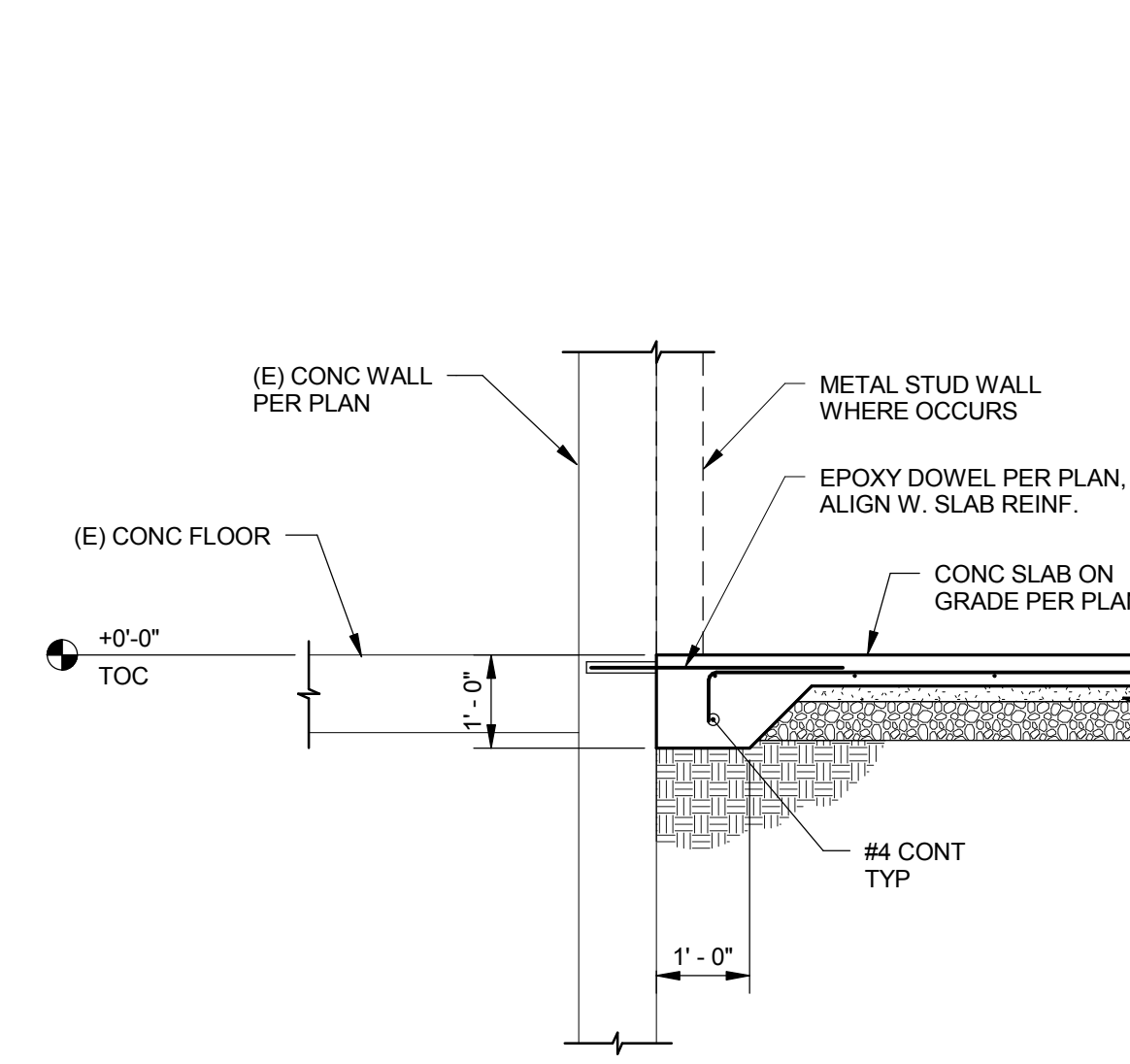
DETAIL 5 S3.01A 1" = 1'-0"



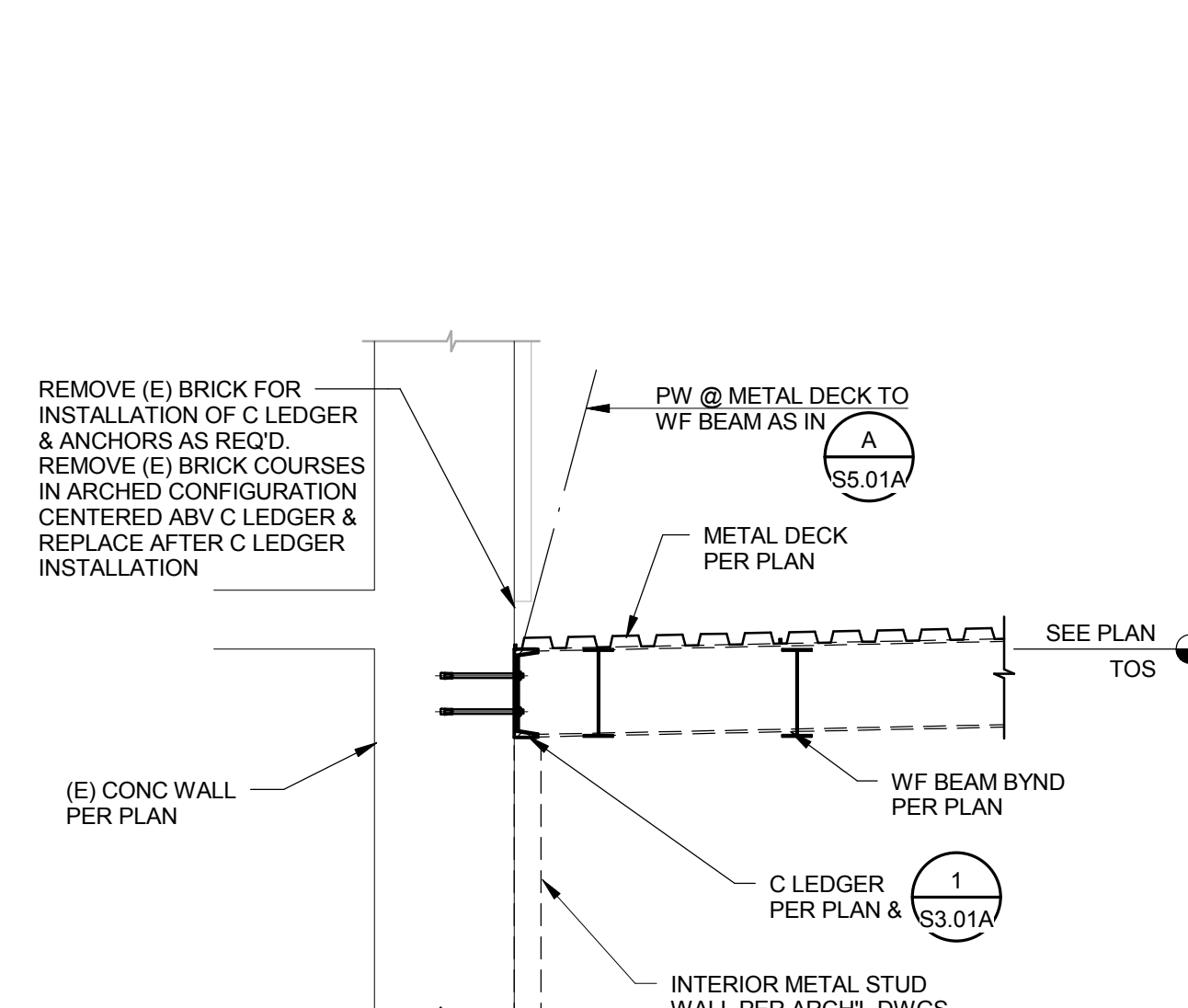
DETAIL 6 S3.01A 1" = 1'-0"



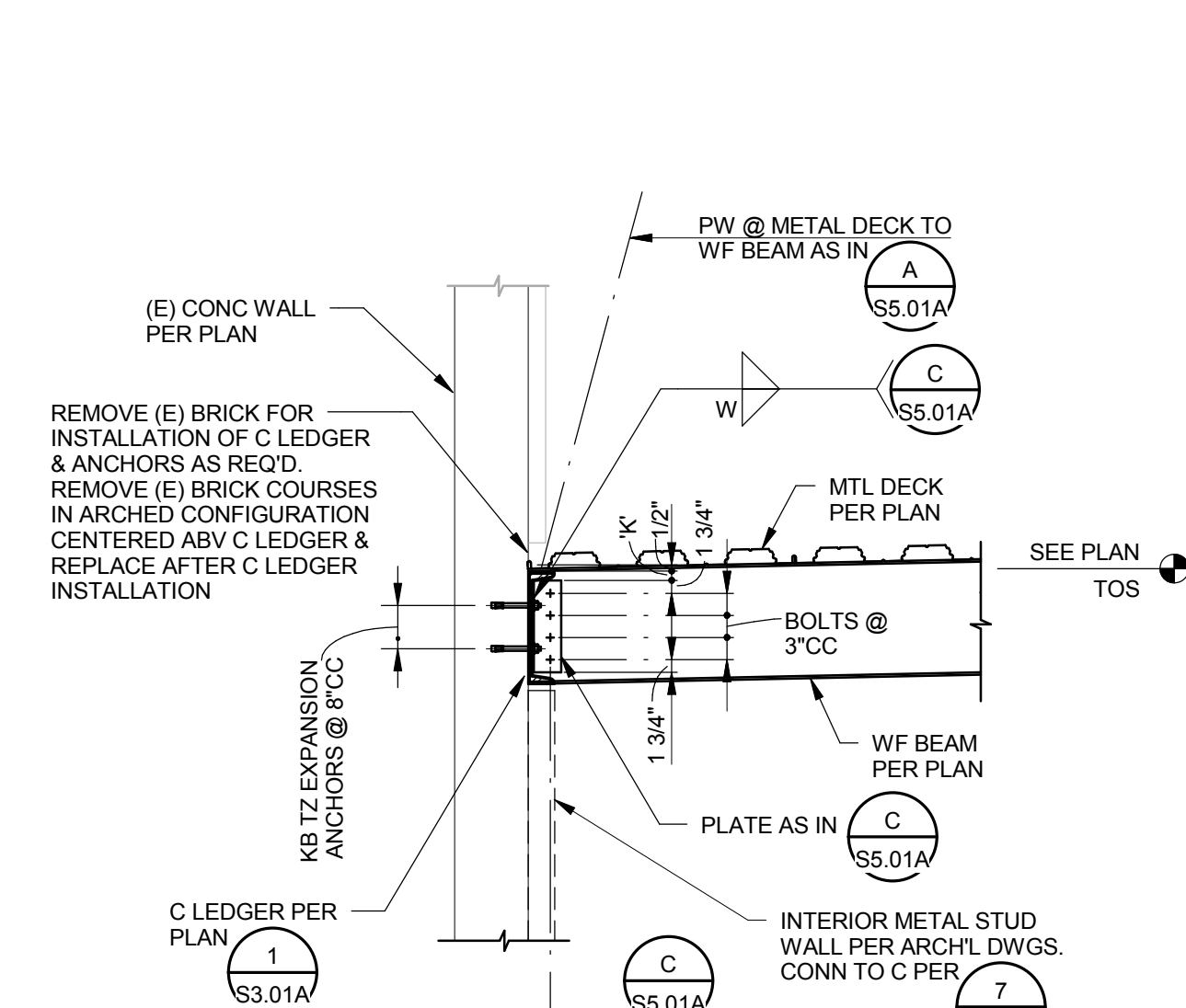
SECTION A S3.01A 1/2" = 1'-0"



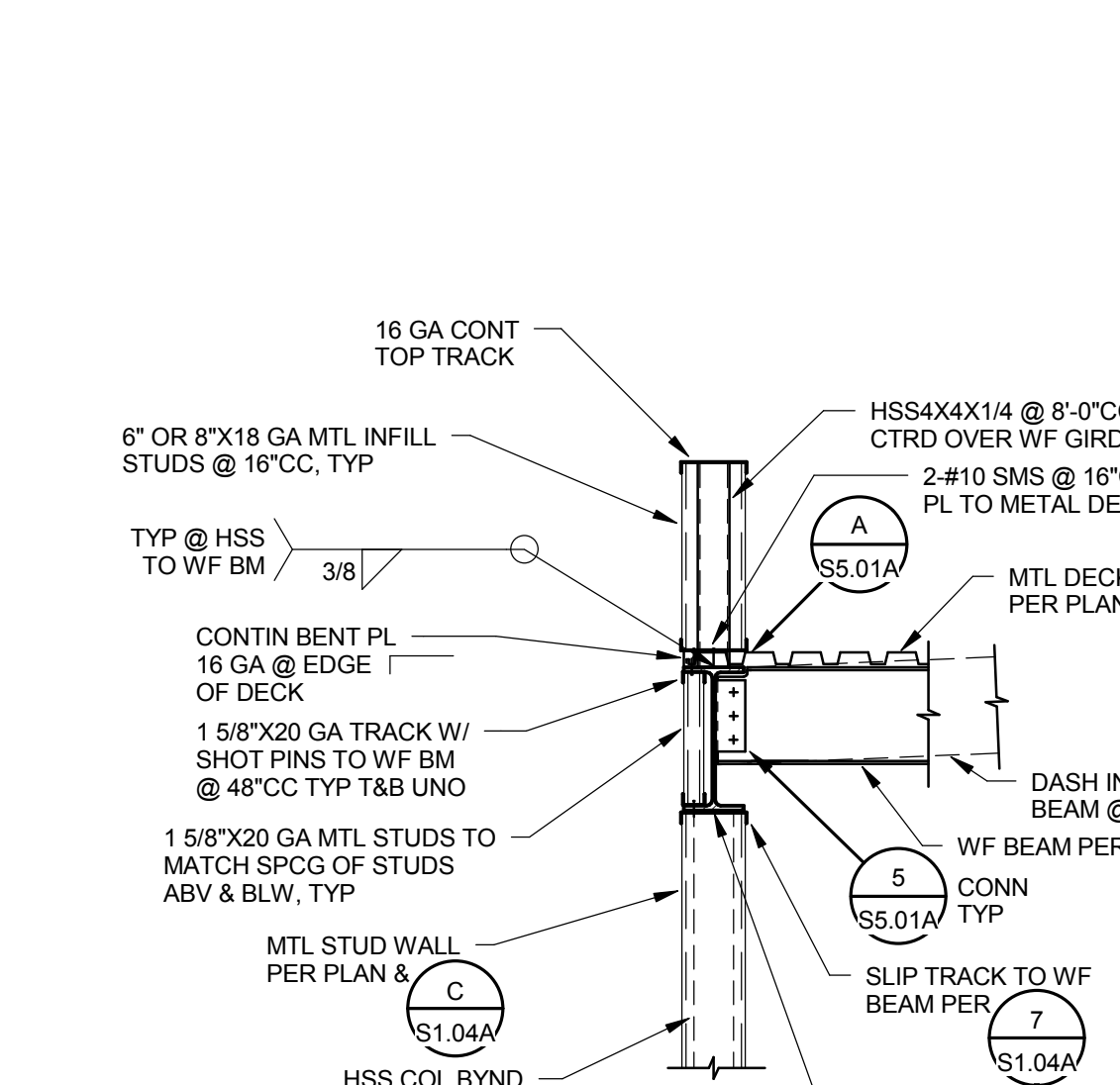
SECTION B S3.01A 1/2" = 1'-0"



SECTION C S3.01A 1/2" = 1'-0"



SECTION D S3.01A 1/2" = 1'-0"



SECTION E S3.01A 1/2" = 1'-0"

FINAL BID DOCUMENTS

<b>CONSULTANTS:</b>  Buchler & Buchler Structural Engineers, Inc. 600 Q Street, Suite 200, Sacramento, CA 95811 tel 916 440 1200 fax 916 440 1013 Sacramento - Phoenix - San Francisco		<b>ARCHITECT/ENGINEERS:</b>  HILLIARD ARCHITECTS, INC 251 Post Street, Suite 620 San Francisco, CA 94108-5017 Tel 415 989 6400, Fax 415 989 3056 www.HilliardArchitects.com		<b>Drawing Title</b> <b>SECTIONS AND DETAILS</b>		<b>Project Title</b> <b>VA PALO ALTO BLDG 6 ADMINISTRATION EXPANSION</b>		<b>Project Number</b> <b>640-13-121P</b>		<b>Office of Construction and Facilities Management</b> 	
<b>Revisions:</b>				<b>Approved: Project Director</b>		<b>Location</b> VAPAHCS - PALO ALTO, CA		<b>Building Number</b> <b>6</b>			
<b>Date</b>				<b>Date</b> 04.17.2014		<b>Checked</b> JDH		<b>Drawn</b> Author		<b>Drawing Number</b> <b>S3.01A</b>	
										<b>Dwg. of</b>	



## ***FINAL BID DOCUMENTS***

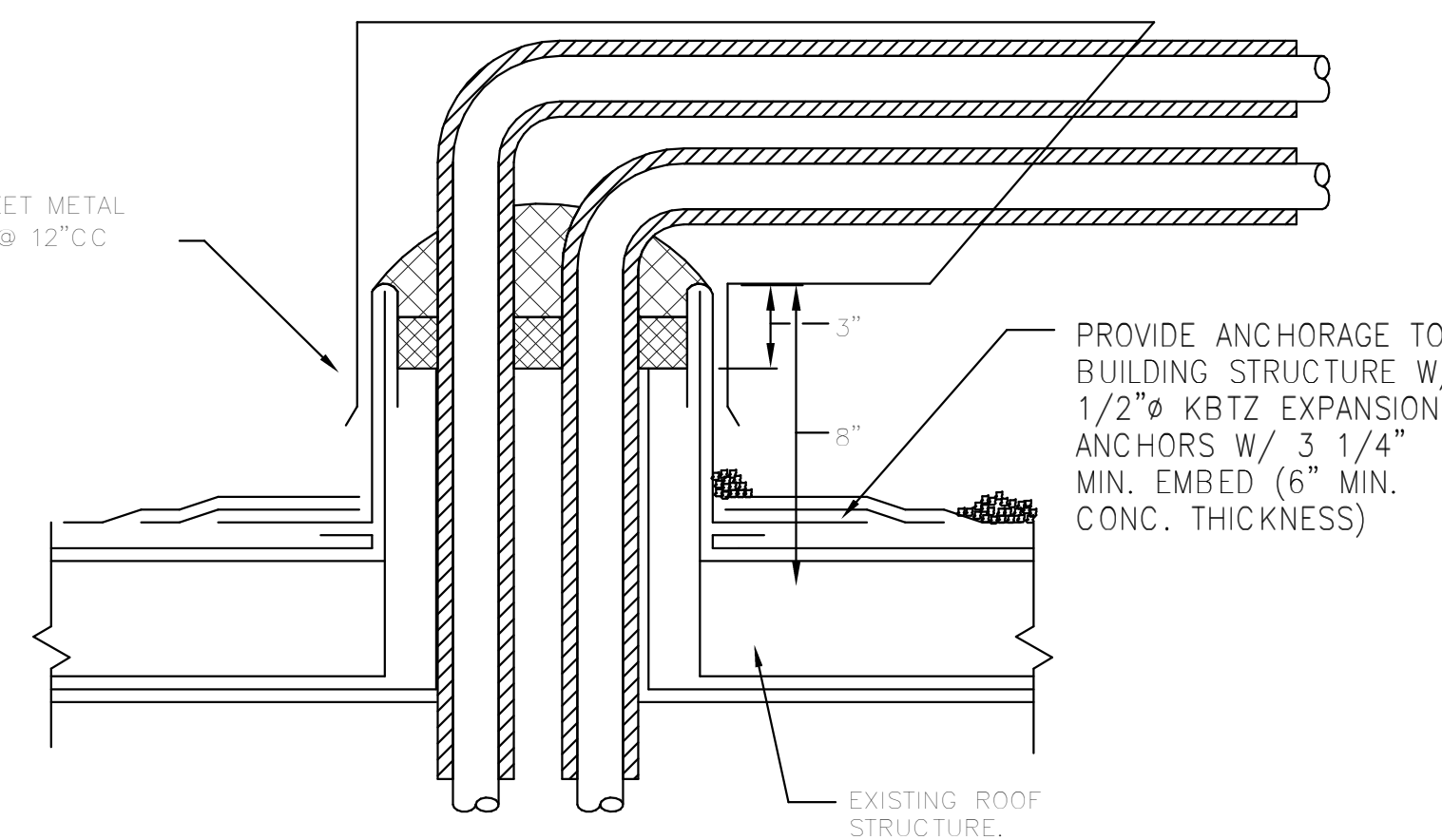




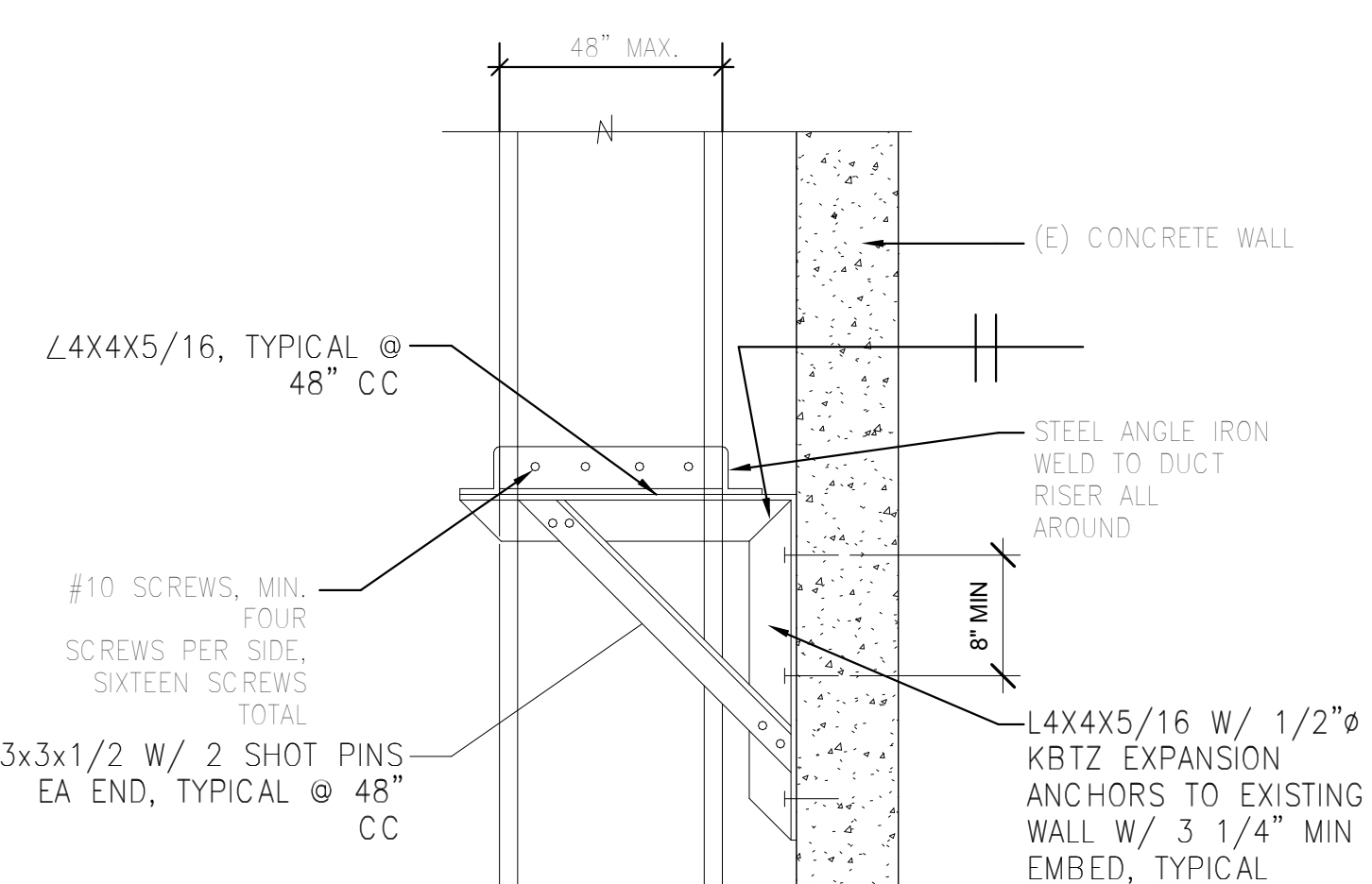
3

VA FORM 08-6231

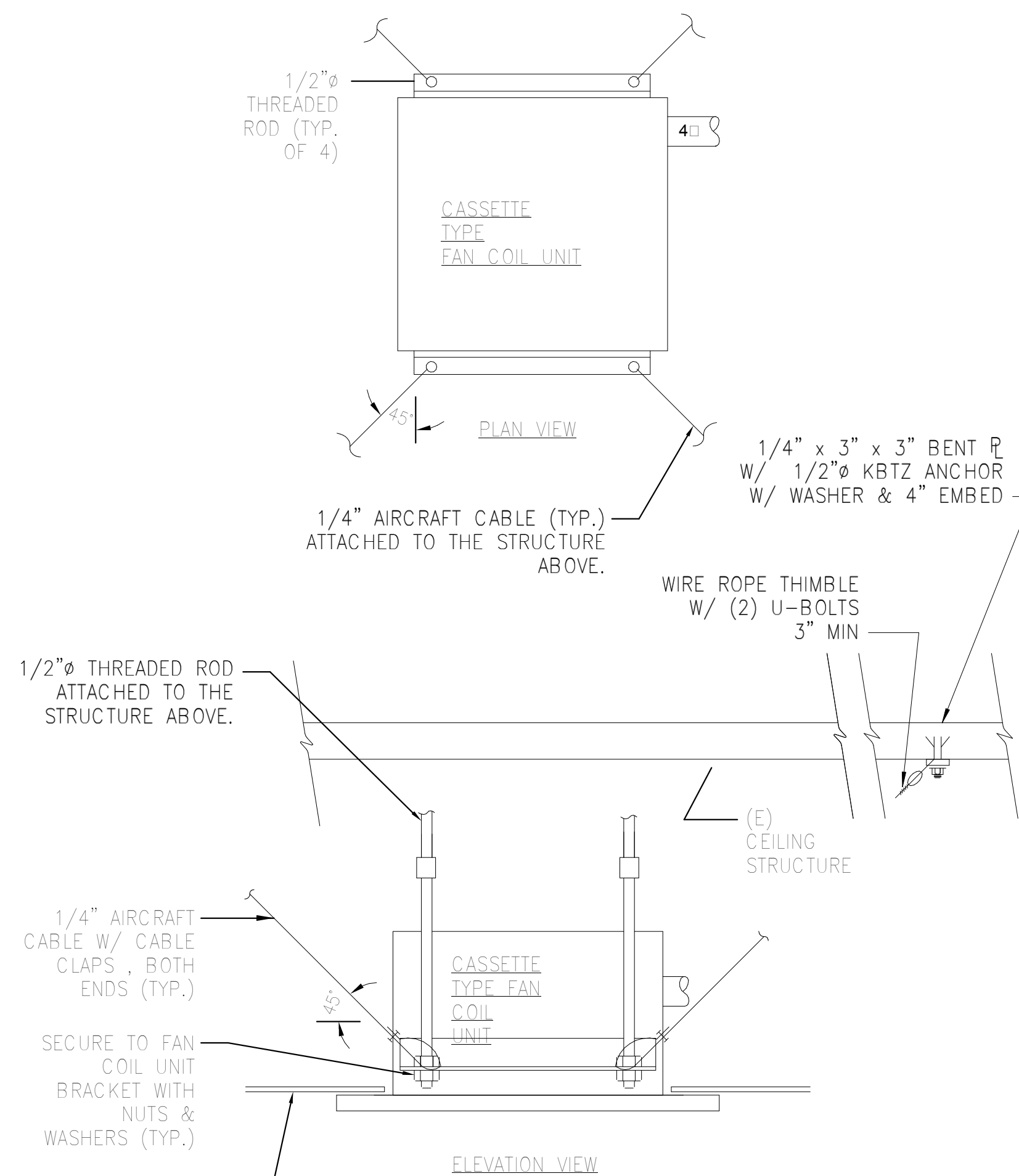
 Department of  
Veterans Affairs



### PIPING THRU ROOF DETAIL

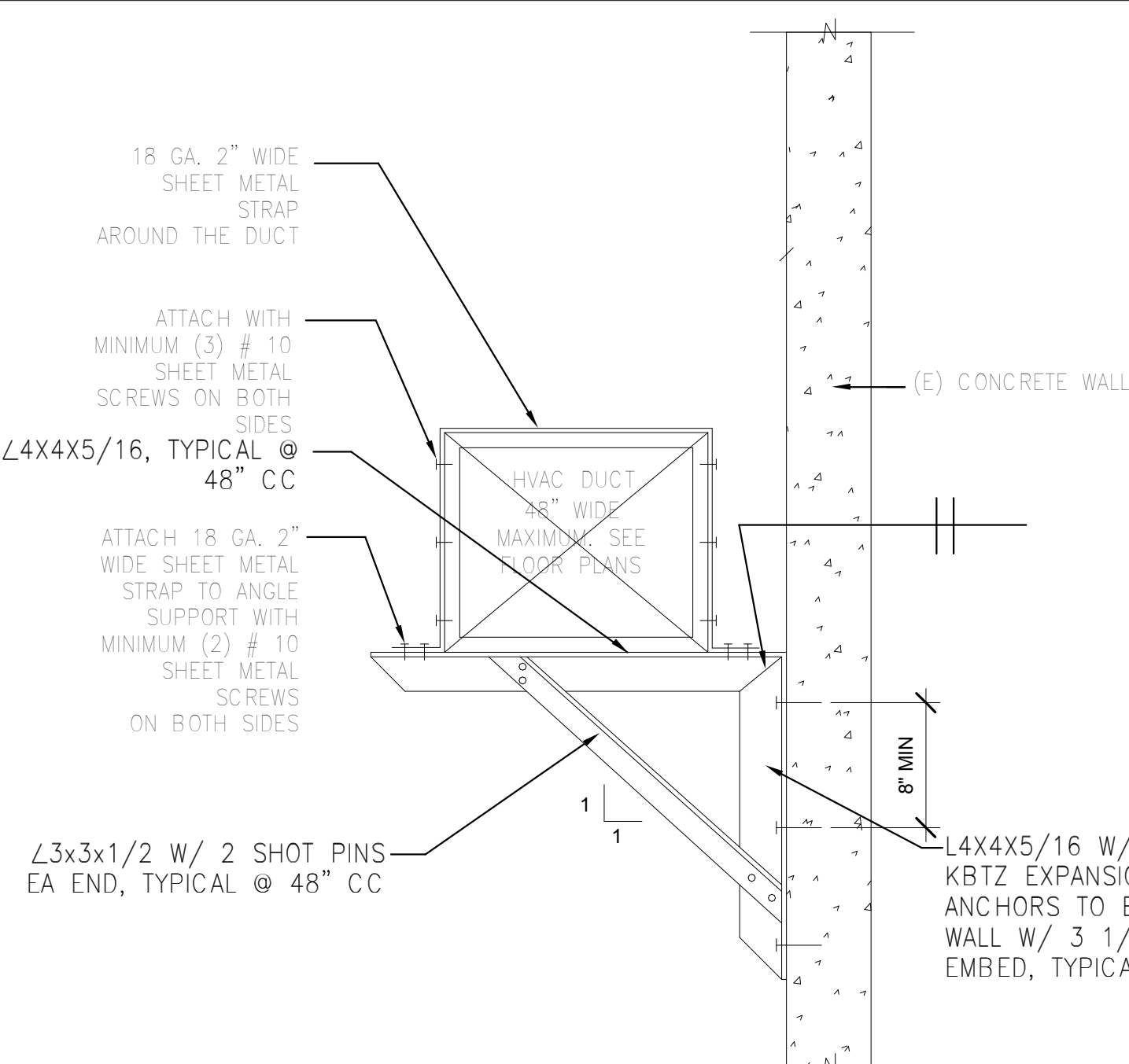


## DUCT RISER SUPPORT ON BUILDING EXTERIOR WALL



### CEILING MOUNTED CASSETTE TYPE FAN COIL UNIT DETAIL

1. GC SHALL VERIFY ALL INSTALLATION DETAILS WITH EQUIPMENT MANFR'S REQUIREMENTS PRIOR TO INSTALLATION. COORDINATE ANCHOR, SCREW AND/OR EXPANSION BOLT SIZES WITH PRE-MANUFACTURED MOUNTING BRACKETS AND/OR PLATES PRIOR TO INSTALLATION. GC SHALL NOTIFY THE SEOR IF MANFR INSTALLATION REQUIREMENTS DIFFER FROM THE DRAWINGS.
2. THE INFORMATION SHOWN ON THESE DRAWINGS HAS BEEN PROVIDED BY OTHERS AND REVIEWED FOR SEISMIC CONNECTION REQUIREMENTS. REFER TO SHEET M507 FOR INFORMATION NOT SHOWN.
3. GC SHALL VERIFY THAT THE (E) AS-BUILT CONDITIONS COMPLY WITH THE REQUIREMENTS SHOWN IN THESE DRAWINGS PRIOR TO INSTALLATION. MINIMUM (E) CONCRETE STRENGTH SHALL BE 2500 PSI. GC SHALL NOTIFY THE SEOR IF (E) CONDITIONS DIFFER FROM THE DRAWINGS.



### SUPPORT HORIZONTAL DUCT ON EXTERIOR WALL

**B&B**

**Buehler & Buchler  
Structural Engineers, Inc.**

600 Q Street, Suite 202, Sacramento, CA 95811  
tel 916.441.0372 fax 916.441.0313  
Sacramento, Phoenix, San Francisco

**REGISTERED PROFESSIONAL ENGINEER**  
**WILLIAM B. RADER**  
**No. 3592**  
**STRUCTURAL**  
**STATE OF CALIFORNIA**

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[www.HilliardArchitects.com](http://www.HilliardArchitects.com)

## MECHANICAL DETAILS

Approved: Project Director

Location	VAPAHCS, PALO ALTO CAMPUS 3801 MIRANDA AVE. PALO ALTO, CA 94304
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Drawn

SM50A

Down of

Office of  
Construction  
and Facilities  
Management

